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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
MATTHEW R. LEAPER	)	Art Unit: 2884
	)	
Application No.: Not Yet Assigned	)	Examiner: GAWORECKI, Mark
	)	
Filed: December 1, 2023	)	Confirmation No.: 2825
	)	
For: COMMUNICATION DEVICES, METHODS, AND SYSTEMS	)	**VIA EFS WEB**
	)	
	)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicant brings to the attention of the U.S. Patent and Trademark Office (the "Office") the documents listed on the attached Information Disclosure Statement (or “IDS”) Form PTO/SB/08a. Applicant requests consideration of the IDS under § 1.97(b)(4) because it is submitted Before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.

Copies of the listed U.S. patents and patent applications are not enclosed. Copies of the listed foreign patents and non-patent literature are enclosed.

Applicant respectfully requests that the Office consider the documents listed on the attached IDS Form PTO/SB/08a and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Office applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not

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constitute "prior art" under United States law, Applicant reserves the right to present to the U.S. Patent and Trademark Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this application that is not otherwise provided, please charge the fee to Deposit Account No. **603446**. In addition, the Commissioner is hereby authorized to, now and throughout prosecution of this application, charge any additional required fees, including any fees due under 37 CFR §1.16 OR §1.17, charge any underpayments, or credit any overpayment to Deposit Account No. **603446**.

Respectfully submitted,

MATTHEW LEAPER
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Dated: **30APR2024**

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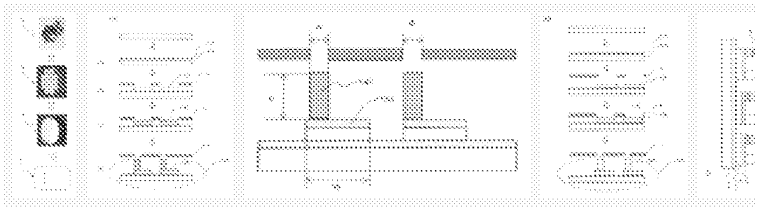
Google Patents KR2012-0018245A

Manufacturing method of thermoelectric film

Abstract

PURPOSE: A manufacturing method of a thermoelectric film is provided to perform mass production through an automatic process by mutually joining an N-type thermal conductive film and a P-type thermal conductive film.
CONSTITUTION: A dielectric layer(112) is deposited on the top side of a material(110). A patterned electrode layer(120) is deposited on the top side of the dielectric layer. A barrier layer(130) is deposited on the top side of the electrode layer. An N-type thermoelectric element or a P-type thermoelectric element(140) is deposited on the top side of the barrier layer. An N-type thermal conductive film and a P-type thermal conductive film are welded and a thin thermal conductive film is manufactured.

Images (7)



Classifications

- H10N10/01 Manufacture or treatment

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Landscapes

- Chemical & Material Sciences
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KR20120018245A
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Other languages: Korean

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2010 · KR

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Info: Patent citations (4), Cited by (7), Legal events, Similar documents, Priority and Related Applications

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Claims (27)

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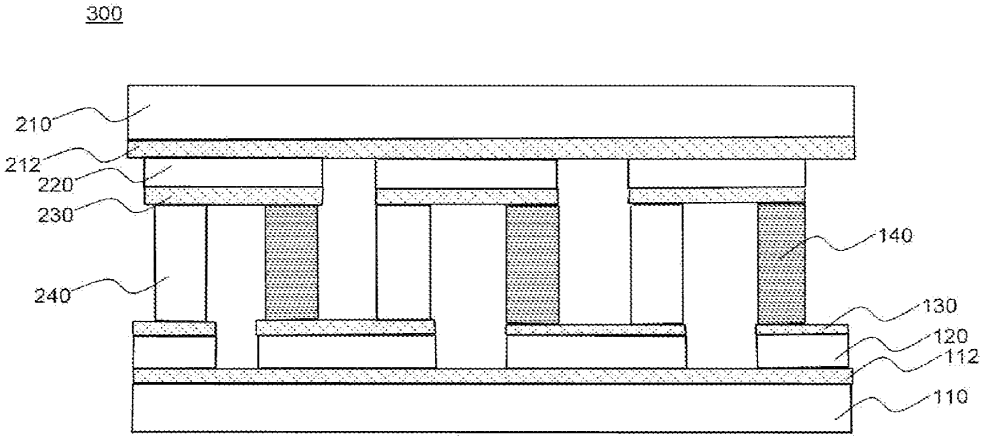
전체 청구항 수 : 총 27 항

(54) 발명의 명칭 **열전필름 제조방법**

(57) 요 약

본 발명은 (1) 기재의 상면에 유전층(dielectric layer)을 증착하는 단계; (2) 마스크(a)를 사용하여 상기 유전층의 상면에 패턴화된 전극층(electrode layer)을 증착하는 단계; (3) 마스크(b)를 사용하여 상기 전극의 상면에 베리어층(barrier layer)를 증착하는 단계; (4) 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및 (5) 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 열전필름을 제조하는 단계; 로 이루어진 열전필름 제조방법을 제공한다.

대 표 도



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특허청구의 범위

청구항 1

(1) 기재의 상면에 유전층(dielectric layer)을 증착하는 단계;

(2) 마스크(a)를 사용하여 상기 유전층의 상면에 패턴화된 전극층(electrode layer)을 증착하는 단계;

(3) 마스크(b)를 사용하여 상기 전극층의 상면에 베리어층(barrier layer)을 증착하는 단계;

(4) 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및

(5) 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 얇은 열전필름을 제조하는 단계;

를 포함하는 것을 특징으로 하는 열전필름 제조방법.

청구항 2

제 1 항에 있어서, 상기 N형 열전필름과 P형 열전필름은 플립(flip) 및 어닐링(annealing)에 의해 상호 접합되는 것을 특징으로 하는 열전필름 제조방법.

청구항 3

제 1 항에 있어서, 상기 기재는 열전도성 소재로 이루어진 것을 특징으로 하는 열전필름 제조방법.

청구항 4

제 3 항에 있어서, 상기 열전도성 소재는 질화알루미늄(AlN) 또는 그라파이트(graphite)로 이루어진 것을 특징으로 하는 열전필름 제조방법.

청구항 5

제 1 항에 있어서, 상기 유전층은 이산화규소(SiO_2)로 이루어져 있고, 두께가 0.1 ㎛ 내지 1 ㎛인 것을 특징으로 하는 열전필름 제조방법.

청구항 6

제 1 항에 있어서, 상기 유전층은 화학기상 증착법(CVD) 또는 스퍼터링(sputtering)에 의해 증착되는 것을 특징으로 하는 열전필름 제조방법.

청구항 7

제 1 항에 있어서, 상기 전극층은 구리(Cu)로 이루어져 있고, 두께가 0.1 ㎛ 내지 1 ㎛인 것을 특징으로 하는 열전필름 제조방법.

청구항 8

제 1 항에 있어서, 상기 마스크(a)는 전극층에 대응하는 위치에 개구를 포함하고 있는 것을 특징으로 하는 열전필름 제조방법.

청구항 9

제 1 항에 있어서, 상기 전극층은 전자빔(E-beam) 조사 또는 스퍼터링에 의해 증착되는 것을 특징으로 하는 열전필름 제조방법.

청구항 10

제 1 항에 있어서, 상기 전극층은 기재 상에 일정한 간격으로 형성되는 것을 특징으로 하는 열전필름 제조방법.

청구항 11

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제 1 항에 있어서, 상기 베리어층은 니켈(Ni) 또는 티타늄(Ti)으로 이루어져 있고, 두께가 0.1 ㎛ 내지 1 ㎛인 것을 특징으로 하는 열전필름 제조방법.

청구항 12

제 1 항에 있어서, 상기 마스크(b)는 마스크(a)와 동일한 형상으로 이루어진 것을 특징으로 하는 열전필름 제조방법.

청구항 13

제 1 항에 있어서, 상기 베리어층은 전자빔(E-beam) 조사 또는 스퍼터링에 의해 증착되는 것을 특징으로 하는 열전필름 제조방법.

청구항 14

제 1 항에 있어서, 상기 N형 열전소자 또는 P형 열전소자는 1 내지 50 ㎛의 두께를 가지는 것을 특징으로 하는 열전필름 제조방법.

청구항 15

제 1 항에 있어서, 상기 N형 열전소자 또는 P형 열전소자의 폭은 베리어층 폭의 10 내지 50% 크기인 것을 특징으로 하는 열전필름 제조방법.

청구항 16

제 1 항에 있어서, 상기 N형 열전소자 또는 P형 열전소자는 스퍼터링에 의해 증착되는 것을 특징으로 하는 열전필름 제조방법.

청구항 17

(1) 마스크(a)를 사용하여 기재의 상면에 패턴화된 전극층을 증착하는 단계;

(2) 마스크(b)를 사용하여 상기 전극층의 상면에 베리어층을 증착하는 단계;

(3) 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및

(4) 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 얇은 열전필름을 제조하는 단계;

를 포함하는 것을 특징으로 하는 열전필름 제조방법.

청구항 18

제 17 항에 있어서, 상기 N형 열전필름과 P형 열전필름은 플립 및 어닐링에 의해 상호 접합되는 것을 특징으로 하는 열전필름 제조방법.

청구항 19

N형 열전필름과 P형 열전필름이 서로 대향한 상태로 상하로 맞물려 접합되어 있고,

상기 N형 열전필름은 열전도성의 기재, 패턴화된 전극층, 베리어층, 및 N형 열전소자의 순으로 적층되어 있으며,

상기 P형 열전필름은 열전도성의 기재, 패턴화된 전극층, 베리어층, 및 P형 열전소자의 순으로 적층되어 있는 것을 특징으로 하는 열전필름.

청구항 20

제 19 항에 있어서, 상기 N형 열전필름과 P형 열전필름은 기재와 전극층을 전기적 절연하는 유전층을 기재와 전극층 사이에 더 포함하고 있는 것을 특징으로 하는 열전필름.

청구항 21

제 19 항에 있어서, 통전시 전류는 N형 열전소자와 P형 열전소자를 따라 직렬로 흐르는 것을 특징으로 하는 열

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전필름.

청구항 22

제 19 항에 있어서, 통전시 N형 열전필름의 기재가 흡열성을 가지고 P형 열전필름의 기재가 방열성을 가지거나, 또는 N형 열전필름의 기재가 방열성을 가지고 P형 열전필름의 기재가 흡열성을 가지는 것을 특징으로 하는 열전필름.

청구항 23

제 19 항에 따른 열전필름이 전지셀들의 계면에 개재되어 있고, 상기 전지셀들이 팩 케이스에 내장되어 적층되어 있는 전지모듈.

청구항 24

제 23 항에 있어서, 상기 전지셀의 계면에는 두 개의 열전 필름이 서로 대향하는 방향으로 개재되어 있는 것을 특징으로 하는 전지모듈.

청구항 25

제 23 항에 있어서, 상기 열전필름은, 통전시 흡열성을 가지는 흡열면과 발열성을 가지는 발열면을 가지고, 그것의 외면에는 열전필름의 열을 전도하는 도전층이 형성되어 있는 것을 특징으로 하는 전지모듈.

청구항 26

제 25 항에 있어서, 상기 도전층은 질화알루미늄(AlN), 구리, 은, 스테인리스 중 어느 하나로 이루어진 금속층 또는 그라파이트(graphite) 층인 것을 특징으로 하는 전지모듈.

청구항 27

제 25 항에 있어서, 상기 열전필름의 흡열면은 전지셀에 대면해 있고, 발열면은 도전층에 접해 있는 것을 특징으로 하는 전지모듈.

명 세 서

기 술 분 야

[0001] 본 발명은 열전필름의 제조방법에 관한 것으로서, 더욱 상세하게는, 기재의 상면에 유전층을 증착하는 단계, 마스크(a)를 사용하여 상기 유전층의 상면에 패턴화된 전극층을 증착하는 단계, 마스크(b)를 사용하여 상기 전극층의 상면에 베리어층을 증착하는 단계, 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 얇은 열전필름을 제조하는 단계로 구성된 열전필름 제조방법에 관한 것이다.

배 경 기 술

[0002] 일반적으로 열전모듈은 펠티어(Peltier) 효과와 제벡(seebeck) 효과를 이용하여, 냉각이나 가열을 동시에 수행할 수 있는 열과 전기의 교환계로서, 전극의 전환을 통해 간편하게 냉각과 가열을 전환하거나, 또는 제벡 효과에 의해 열전모듈 양단 간의 온도 차이를 이용하여 전기에너지를 얻을 수 있는 장치이다.

[0003] 이와 같은 열전모듈은 냉각용과 발전용이 있으며, 빠르고 우수한 냉각효과 또는 발전효과를 얻을 수 있을 뿐만 아니라, 부피가 매우 작기 때문에 차세대 냉각소자 및 발전소자로 각광받고 있다.

[0004] 특히, 냉각용 열전모듈은 시스템의 안정성을 필요로 하고 가동공간이 협소한 경우, 소음방지를 필요로 하는 경우, 또는 온도의 정밀 제어가 쉽게 가능해야 하는 경우에 사용되고 있고, 발전용 열전모듈은 열에너지를 전기에너지로 변환하여 발전하는데 주로 사용되고 있다.

[0005] 한편, 도 1에는 종래의 열전모듈 제조과정을 나타내는 사진들이 도시되어 있다.

[0006] 도 1을 참조하여 종래의 열전모듈 제조과정을 설명하면, 먼저 P형 또는 N형 열전소자용 잉곳(ingot)을 열적으로 성장시킨다(10). 다음으로 잉곳을 얇게 슬라이싱(slicing, 20)한 후 다이싱(dicing, 30)에 의해 조각을 낸다.

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마지막으로 이러한 조각들을 조립(assemble, 40)하여 열전모듈을 완성한다.

[0007] 그러나, 이러한 종래의 열전모듈 제조방법은 잉곳의 전체 크기를 증가시키기 어렵고, 대량 생산이 용이하지 않으며 많은 노동력을 필요로 하므로 제조비용이 증가하는 문제점이 있다.

[0008] 또한, 열전모듈을 조립하는 과정에서 박막으로 얇게 제조하는 것이 어렵고 부품들의 상호 접착력이 약해지는 문제점이 있다.

[0009] 따라서, 대량 생산을 가능하게 하여 제조비용을 절감하고 박막 형태로 얇게 제조할 수 있는 신규한 열전필름 제조방법에 대한 필요성이 높은 실정이다.

발명의 내용

해결하려는 과제

[0010] 본 발명은 상기와 같은 종래기술의 문제점과 과거로부터 요청되어온 기술적 과제를 해결하는 것을 목적으로 한다.

[0011] 본 발명의 목적은, 기재에 유전층, 전극층, 베리어층, N형 또는 P형 열전소자를 순차적으로 증착하여 N형 열전필름과 P형 열전필름을 제조한 후 이들을 상호 접합하여 열전필름으로 제조하는 일련의 과정에 의해, 적은 비용으로 자동화 공정에 의해 대량 생산할 수 있는 열전필름 제조방법을 제공하는 것이다.

과제의 해결 수단

[0012] 이러한 목적을 달성하기 위한 본 발명에 따른 열전필름 제조방법은,

[0013] (1) 기재의 상면에 유전층(dielectric layer)을 증착하는 단계;

[0014] (2) 마스크(a)를 사용하여 상기 유전층의 상면에 패턴화된 전극층(electrode layer)을 증착하는 단계;

[0015] (3) 마스크(b)를 사용하여 상기 전극의 상면에 베리어층(barrier layer)을 증착하는 단계;

[0016] (4) 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및

[0017] (5) 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 얇은 열전필름을 제조하는 단계;

[0018] 를 포함하고 있다.

[0019] 따라서, 유전층, 전극층, 베리어층, 열전소자를 기재에 순차적으로 증착하는 일련의 과정에 의해 N형 열전필름과 P형 열전필름을 각각 제조하고 이들을 상호 접합하여 열전필름을 제조하므로, 자동화에 의한 대량 생산이 가능하고, 이는 제조원가를 크게 감소시킬 수 있다.

[0020] 또한, 이러한 열전필름 제조방법에 의해 제조된 열전필름은 박막 형태로 형성되어 있어서, 콤팩트하면서 고도의 안전성이 요구되는 시스템, 예를 들어, 전지팩의 냉각 부재로 유용하게 사용될 수 있다.

[0021] 상기 N형 열전필름과 P형 열전필름의 상호 접합은, 바람직하게는 플립(flip) 및 어닐링(annealing)에 의해 달성될 수 있다.

[0022] 상기 기재는 열전도성이 우수한 열전도성 소재로 이루어져 있으며, 예를 들어, 질화알루미늄(AlN) 또는 그라파이트(graphite)로 이루어질 수 있지만, 이들만으로 한정되는 것은 아니다.

[0023] 상기 유전층은 열전도성 소재로 이루어진 기재와 전극층을 전기적으로 절연시키는 역할을 하며, 두께가 0.1 ㎛ 내지 1 ㎛로 형성될 수 있다.

[0024] 구체적으로, 유전층의 두께가 0.1 ㎛ 미만이면 전극층과 기재 상호간의 전기적 절연을 담보하기 어려울 수 있고, 반대로 두께가 1 ㎛를 초과하면 전체적인 열전필름의 두께가 증가하고, 유전층을 통한 전극층과 기재 상호간의 열적 이동이 억제될 수 있으므로 바람직하지 않다.

[0025] 유전층은 상기와 같은 역할, 즉, 전극층과 기재 상호간의 열적 이동을 허용하면서 전기적 절연성을 제공하는 특성을 가지면서 증착이 용이한 소재이면, 그것의 종류가 특별히 한정되는 것은 아니며, 예를 들어, 이산화규소(SiO_2)로 이루어질 수 있다.

[0026] 상기 유전층을 증착하는 방법이 예로는, 화학기상 증착법(CVD), 스퍼터링 등을 들 수 있지만, 이들만으로 한정

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되는 것은 아니다.

[0027] 상기 전극층은 열전소자에 전류를 인가하는 역할을 하며, 두께가 0.1 ㎛ 내지 1 ㎛로 이루어질 수 있다.

[0028] 구체적으로, 전극층의 두께가 0.1 ㎛ 미만이면 높은 내부저항으로 인해 전극으로서의 효용성이 저하될 수 있으며, 반대로 두께가 1 ㎛를 초과하면 전체적인 열전필름의 두께가 증가하게 되므로 바람직하지 않다.

[0029] 이러한 전극층의 소재는 상기와 같은 역할과 증착이 용이한 소재라면 그것의 종류가 특별히 제한되는 것은 아니며, 예를 들어, 구리(Cu)일 수 있다.

[0030] 상기 마스크(a)는 전극층에 대응하는 위치에 개구를 포함하고 있는 구조로 이루어져 있어서, 유전층의 상면 중에 마스크(a)의 개구에 대응하는 부위에만 전극층이 증착된다. 결과적으로 전극층의 패턴 형상은 마스크(a)의 개구 형상에 의해 결정된다.

[0031] 상기 전극층을 증착하는 방법은 유전층의 상면에 용이하게 증착될 수 있는 방법이면 특별한 제한은 없으며, 예를 들어, 전자빔(E-beam) 조사 또는 스퍼터링에 의해 수행될 수 있다.

[0032] 상기 전극층은 기재 상에 일정한 간격으로 형성될 수 있으며, 구체적으로, 전극층이 규칙적인 패턴으로 형성되어 있어서 열전필름의 작동 효율성 및 냉각 효율성을 향상시킬 수 있다.

[0033] 상기 베리어층은 전극층으로부터 열전소자로의 통전을 허용하면서 이들 상호간의 물질 확산을 방지하는 역할을 하며, 두께가 0.1 ㎛ 내지 1 ㎛로 이루어질 수 있다.

[0034] 구체적으로, 베리어층의 두께가 0.1 ㎛ 미만이면 전극과 열전소자 간의 물질 확산을 담보하기 어려울 수 있고, 반대로 두께가 1 ㎛를 초과하면 전체적인 열전필름의 두께가 증가하게 되므로 바람직하지 않다.

[0035] 이러한 베리어층은 상기와 같은 역할을 수행하면서 증착이 용이한 물질이라면, 그것의 종류가 특별히 한정되는 것은 아니며, 예를 들어, 니켈(Ni) 또는 티타늄(Ti)로 이루어질 수 있다.

[0036] 상기 마스크(b)는 바람직하게는 마스크(a)와 동일한 형상으로 이루어져 있어서, 전극층과 동일한 폭 및 패턴을 가진 베리어층의 형성을 가능하게 한다.

[0037] 상기 베리어층을 증착하는 방법은 전극층의 증착 방법과 동일하거나 다를 수 있으며, 예를 들어, 전자빔(E-beam) 조사 또는 스퍼터링에 의해 수행될 수 있다.

[0038] 한편, 상기 N형 열전소자 또는 P형 열전소자는 1 내지 50 ㎛의 두께를 가질 수 있다.

[0039] 구체적으로, N형 열전소자 또는 P형 열전소자의 두께가 1 ㎛ 미만이면 소망하는 열전소자의 기능을 확보하기 어려울 수 있고, 반대로 두께가 50 ㎛를 초과하면 전체적인 열전필름의 두께가 증가하게 되므로 바람직하지 않다.

[0040] 상기 N형 열전소자 또는 P형 열전소자의 폭은 베리어층 폭의 10 내지 50% 크기로 이루어질 수 있으며, 열전필름의 제조를 위한 최종 단계에서 이후 설명하는 도 5에서와 같이 N형 열전필름과 P형 열전필름을 상호 접합하게 되므로, 열전소자의 폭은 베리어층 폭의 50% 미만인 것이 바람직하고, 20 내지 40%인 것이 더욱 바람직하다.

[0041] 열전소자의 제조를 위한 마스크(c)의 개구는 열전소자 폭에 대응하는 크기를 가진다.

[0042] 상기 N형 열전소자 또는 P형 열전소자를 증착하는 방법은 금속층, 베리어층의 증착 방법과 같거나 다를 수 있으며, 예를 들어 스퍼터링에 의해 수행될 수 있다.

[0043] 경우에 따라서는, 본 발명의 제조방법에서, 일부 구성의 변경 내지 삭제가 가능할 수도 있다.

[0044] 예를 들어, 상기 제조방법에서 단계(1)의 유전층 증착 단계가 제외될 수도 있다. 유전층은 앞서 설명한 바와 같이, 전극층과 기재 상호간의 열적 이동을 허용하면서 전기적 절연성을 제공하는 역할을 하므로, 기재 자체가 전기적 절연성을 가진 소재로 이루어진 경우에는 유전층을 형성하지 않을 수도 있다.

[0045] 따라서, 본 발명의 또 다른 예에 따른 제조방법은,

[0046] (1) 마스크(a)를 사용하여 기재의 상면에 패턴화된 전극층(electrode layer)을 증착하는 단계;

[0047] (2) 마스크(b)를 사용하여 상기 전극층의 상면에 베리어층(barrier layer)을 증착하는 단계;

[0048] (3) 마스크(c)를 사용하여 상기 베리어층의 상면에 N형 열전소자 또는 P형 열전소자를 증착하는 단계; 및

[0049] (4) 상기 단계들에서 제조된 N형 열전필름과 P형 열전필름을 상호 접합하여 얇은 열전필름을 제조하는 단계;

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[0050] 를 포함하는 것으로 구성될 수 있다.

[0051] 하나의 바람직한 예로서, 상기 N형 열전필름과 P형 열전필름의 상호 접합은 플립(flip) 및 어닐링(annealing)에 의해 달성될 수 있다.

[0052] 본 발명은 또한 열전필름을 제공한다.

[0053] 구체적으로는, 상기 열전필름은,

[0054] N형 열전필름과 P형 열전필름이 서로 대향한 상태로 상하로 맞물려 접합되어 있고,

[0055] 상기 N형 열전필름은 열전도성의 기재, 패턴화된 전극층, 베리어층, 및 N형 열전소자의 순으로 적층되어 있으며,

[0056] 상기 P형 열전필름은 열전도성의 기재, 패턴화된 전극층, 베리어층, 및 P형 열전소자의 순으로 적층되어 있는 구조로 구성되어 있다.

[0057] 상기 열전필름의 구조에서 열전도성의 기재는 통전시 흡열 또는 방열 기능을 발휘하고, 베리어층은 전극으로부터 물질 확산을 방지할 수 있다.

[0058] 바람직하게는, 상기 N형 열전필름과 P형 열전필름은 기재와 전극층을 전기적 절연하는 유전층을 기재와 전극층 사이에 더 포함할 수도 있다. 그러나, 앞서 설명한 바와 같이, 기재가 전기절연성 소재로 이루어진 경우에는 유전층이 제외될 수도 있다.

[0059] 상기 열전필름의 구조에서, 통전시 전류는 N형 열전소자와 P형 열전소자를 따라 직렬로 흐르게 된다.

[0060] 한편, 상기 열전필름은 통전시 N형 열전필름의 기재가 흡열성을 가지고 P형 열전필름의 기재가 방열성을 가지거나, 또는 N형 열전필름의 기재가 방열성을 가지고 P형 열전필름의 기재가 흡열성을 가지는 구조로 구성될 수 있다.

[0061] 본 발명은 또한 상기 열전필름이 전지셀들의 계면에 개재되어 있고, 상기 전지셀들이 팩 케이스에 내장되어 적층되어 있는 전지모듈을 제공한다.

[0062] 예를 들어, 상기 전지모듈은 상기 열전필름이 계면에 개재되어 있는 다수의 판상형 전지셀들이 팩 케이스에 내장되어 순차적으로 적층되어 있는 구조일 수 있다.

[0063] 하나의 바람직한 예에서, 상기 전지모듈의 열전필름은, 통전시 흡열 성을 가지는 흡열면과 발열성을 가지는 발열면을 가지고 있고, 그것의 외면에는 열전필름의 열을 전도하는 도전층이 형성되어 있는 구조일 수 있다.

[0064] 따라서, 상기 열전필름은 높은 열전도성을 가지는 도전층에 접해 있어서 전지모듈 외부로의 효과적인 방열을 수행할 수 있다. 상기 도전층의 예로서, 질화알루미늄(AlN), 구리, 은, 스테인리스 중 어느 하나로 이루어진 금속층 또는 그라파이트(graphite) 층 등을 들 수 있지만, 이들만으로 한정되는 것은 아니다.

[0065] 상기 열전필름의 흡열면은 전지셀에 대면해 있고, 발열면은 도전층에 접해 있는 구조로 구성될 수 있다.

[0066] 즉, 전지모듈 내부에 장착되어 있는 전지셀이 다양한 원인에 의해 과열되는 경우, 열전필름은 전지셀에 접해 있는 흡열면을 통해 열을 흡수하고 발열면에서 방열을 이룸으로써 전지모듈의 온도를 안전한 온도 범위로 저하시킨다. 따라서, 전지모듈의 유입구에 구동 팬을 설치하는 종래의 전지모듈 냉각 시스템보다 간단하고 콤팩트한 구조로 전지셀 적층체의 냉각을 수행할 수 있으므로, 전지모듈의 냉각 효율성을 극대화할 수 있고, 높은 집적도로 전지셀들을 적층할 수 있다.

[0067] 상기 열전필름은 전지셀의 계면에서 보다 효율적으로 열전달을 이룰 수 있도록, 바람직하게는 상기 두 개의 열전필름이 서로 대향하는 방향으로 개재되어 있을 수 있다. 경우에 따라서는, 전지셀의 계면에 하나의 열전 필름을 개재하거나, 또는 하나의 도전층에 서로 대향하는 방향으로 열전필름을 각각 포함할 수 있음은 물론이다.

[0068] 한편, 상기 전지모듈은 고출력 대용량의 달성을 위해 다수의 전지셀들을 포함함으로써, 충방전시 발생하는 고열이 안전성 측면에서 심각하게 대두되는 전기자동차, 하이브리드 전기자동차, 또는 플러그-인 하이브리드 전기자동차의 전원에 바람직하게 사용될 수 있다.

발명의 효과

[0069] 이상에서 설명한 바와 같이, 본 발명에 따른 열전필름 제조방법은 유전층, 전극층, 베리어층, N형 열전소자 또

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는 P형 열전소자를 기재에 순차적으로 증착하여 제조한 N형 열전필름과 P형 열전필름을 상호 접합하여 열전필름을 제조하므로 자동화에 의해 대량 생산이 가능하며 박막 형태의 얇은 열전필름을 제공할 수 있다.

도면의 간단한 설명

[0070] 도 1은 종래의 열전모듈 제조과정을 나타내는 사진들이다;

도 2는 본 발명의 하나의 실시예에 따른 N형 열전필름을 제조하는 과정을 나타내는 수직단면 모식도들이다;

도 3은 도 2의 N형 열전필름을 확대한 수직단면 모식도이다;

도 4는 본 발명의 하나의 실시예에 따른 P형 열전필름을 제조하는 과정을 나타내는 수직단면 모식도들이다;

도 5는 본 발명의 하나의 실시예에 따른 열전필름의 수직 단면 모식도이다;

도 6은 본 발명의 또 다른 실시예에 따른 전지모듈의 모식도이다;

도 7은 도 6의 열전필름의 측면 모식도이다.

발명을 실시하기 위한 구체적인 내용

[0071] 이하에서는, 본 발명의 실시예에 따른 도면을 참조하여 설명하지만, 이는 본 발명의 더욱 용이한 이해를 위한 것으로, 본 발명의 범주가 그것에 의해 한정되는 것은 아니다.

[0072] 도 2에는 본 발명의 하나의 실시예에 따른 N형 열전필름을 제조하는 과정을 나타내는 수직단면 모식도들이 도시되어 있고, 도 3에는 도 2의 N형 열전필름을 확대한 수직단면 모식도가 도시되어 있다.

[0073] 이들 도면을 참조하면, N형 열전필름 제조방법(100)은 (1) 기재(110)의 상면에 유전층(112)을 화학기상 증착법에 의해 증착하는 단계; (2) 마스크(a)를 사용하여 유전층(112)의 상면에 패턴화된 전극층(120)을 전자빔에 의해 일정한 패턴으로 증착하는 단계; (3) 마스크(b)를 사용하여 전극층(120)의 상면에 베리어층(130)를 증착하는 단계; 및 (4) 마스크(c)를 사용하여 베리어층(130)의 상면에 N형 열전소자(140)를 스퍼터링에 의해 증착하는 단계로 구성되어 있다.

[0074] 기재(110)는 열전도성 소재로서 질화알루미늄으로 이루어져 있고, 유전층(112)은 이산화규소 소재로 이루어져 있다. 또한, 전극층(120)은 구리 소재로 이루어져 있고, 베리어층(130)은 니켈소재로 이루어져 있다.

[0075] 마스크(a)는 전극층(120)에 대응하는 위치에 개구를 포함하고 있고, 마스크(b)는 마스크(a)와 동일한 형상을 가지고 있다

[0076] 또한, 유전층(112)은 두께가 0.2 ㎛로 형성되어 있고, 전극층(120)은 두께가 0.4 ㎛로 형성되어 있으며, 베리어층(130)은 두께가 0.2 ㎛로 형성되어 있다.

[0077] N형 열전소자(140)는 10 ㎛의 두께(h)를 가지고 있고, N형 열전소자(140)의 폭(w)은 베리어층(130) 폭(W)의 약 30% 크기로 이루어져 있다.

[0078] 또한, 마스크(c)의 개구는 N형 열전소자(140) 폭(w)에 대응하는 크기(d)를 가지고 있다.

[0079] 도 4에는 본 발명의 하나의 실시예에 따른 P형 열전필름을 제조하는 과정을 나타내는 수직단면 모식도들이 도시되어 있다.

[0080] 도 4를 참조하면, P형 열전필름 제조방법(200)은 (1) 기재(210)의 상면에 유전층(212)을 화학기상 증착법에 의해 증착하는 단계; (2) 마스크(a')를 사용하여 유전층(212)의 상면에 패턴화된 전극층(220)을 전자빔에 의해 증착하는 단계; (3) 마스크(b')를 사용하여 전극층(220)의 상면에 베리어층(230)을 증착하는 단계; 및 (4) 마스크(c')를 사용하여 베리어층(230)의 상면에 N형 열전소자(240)를 스퍼터링에 의해 증착하는 단계로 구성되어 있는 것을 제외하고는, 도 3의 구조와 동일하므로 자세한 설명은 생략하기로 한다.

[0081] 도 5에는 본 발명의 하나의 실시예에 따른 열전필름의 수직 단면 모식도가 도시되어 있다.

[0082] 도 5를 참조하면, 열전필름(300)은 도 2의 N형 열전필름(150)과 도 4의 P형 열전필름(250)이 플립 및 어닐링에 의해 상호 접합하여 조립되어 있고, N형 열전필름(150)과 P형 열전필름(250)이 서로 대향한 상태로 상하로 맞물려 접합되어 있다.

[0083] N형 열전필름(150)은 통전시 흡열성 또는 방열성을 가지는 열전도성의 기재(110), 기재(110)와 전극층(120)의

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전기적 절연을 위한 유전층(112), 패턴화된 전극층(120), 전극으로부터 물질 확산을 방지하는 베리어층(130), 및 N형 열전소자(140)의 순으로 적층되어 있다.

[0084] 또한, P형 열전필름(250)은 통전시 흡열성 또는 방열성을 가지는 열전도성의 기재(210), 기재(210)와 전극층(220)의 전기적 절연을 위한 유전층(212), 패턴화된 전극층(220), 전극으로부터 물질 확산을 방지하는 베리어층(230), 및 P형 열전소자(240)의 순으로 적층되어 있다.

[0085] 따라서, 통전시 전류는 N형 열전소자(140)와 P형 열전소자(240)를 따라 직렬로 흐르고, N형 열전필름(150)의 기재(110)가 흡열성을 가지며 P형 열전필름(250)의 기재(210)가 방열성을 가지게 된다.

[0086] 이와는 반대로, 전류를 반대로 흘리면 N형 열전필름(150)의 기재(110)가 방열성을 가지고 P형 열전필름(250)의 기재(210)가 흡열성을 가지게 됨은 물론이다.

[0087] 구체적으로 열전필름(300)의 발열 및 흡열 원리는 하기와 같다. 열전필름(300)은 질화알루미늄과 같은 세라믹 재질의 기재들(110, 210) 사이에 n형 열전소자(140)와 p형 열전소자(240)가 배열되어 있다. 또한, n형 열전소자(140)와 p형 열전소자(240)는 구리로 이루어진 금속전극(120, 220)에 접합되어 있다, 따라서, p형 열전소자(240)와 n형 열전소자(240) 쌍의 양 분지단의 극성이 각각 음극과 양극이 되도록 직류 전류를 흘리면, 펠티어 효과에 따라 p형 열전소자 내의 정공은 음극으로, n형 열전소자 내의 전자는 양극으로 이끌리게 된다.

[0088] 이때 정공과 전자 모두 상부의 p-n접합부 전극으로부터 열을 갖고 하부의 양 분지단 전극으로 이동하기 때문에 상부의 접합부는 냉각되어 주위로부터 열을 흡수하고, 하부의 양 분지단은 열을 방출하게 된다. 전류의 흐름을 반대로 하면, 이와 반대의 현상이 나타난다.

[0089] 따라서, 열전필름은 냉각용 또는 가열용으로 사용될 수 있어 온도조절이 필요한 장치에 매우 적절하며, 열에너지로부터 전기에너지를 생성시킬 수 있어 발전용으로도 이용된다.

[0090] 도 6에는 본 발명의 또 다른 실시예에 따른 전지모듈의 모식도가 도시되어 있고, 도 7에는 도 6의 열전 필름의 측면 모식도가 도시되어 있다.

[0091] 이들 도면을 참조하면, 전지모듈(500)은 다수의 판상형 전지셀(400)들이 팩 케이스(510)에 내장되어 순차적으로 적층되어 있고, 각각의 전지셀(400) 계면에는 열전필름(310)이 개재되어 있다.

[0092] 열전필름(310)은 통전시 흡열성을 가지는 흡열면(311)과 발열성을 가지는 발열면(312)을 가지고 있고, 열전필름(310)의 외면에는 열전필름의 열을 전도하는 도전층(320)이 형성되어 있다.

[0093] 열전필름(310)의 흡열면(311)은 전지셀(400)에 대면해 있고, 발열면(312)은 도전층(320)에 접해 있다.

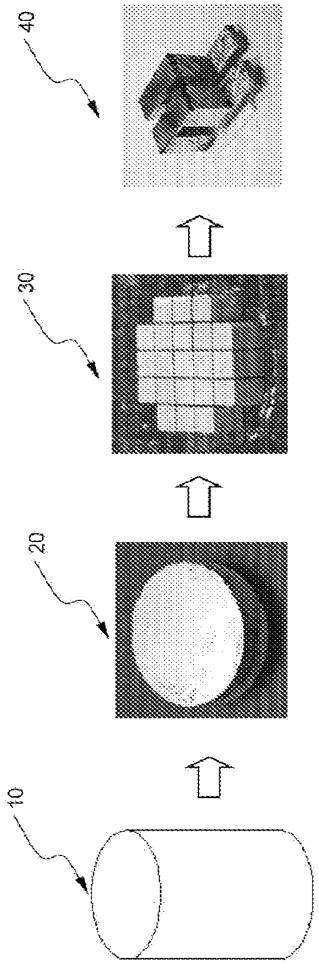
[0094] 한편, 도전층(320)은 질화알루미늄(AlN), 구리, 은, 스테인리스 중 어느 하나로 이루어진 금속층 또는 그라파이트(graphite) 층일 수 있다.

[0095] 본 발명이 속한 분야에서 통상의 지식을 가진 자라면 상기 내용을 바탕으로 본 발명의 범주 내에서 다양한 응용 및 변형을 행하는 것이 가능할 것이다.

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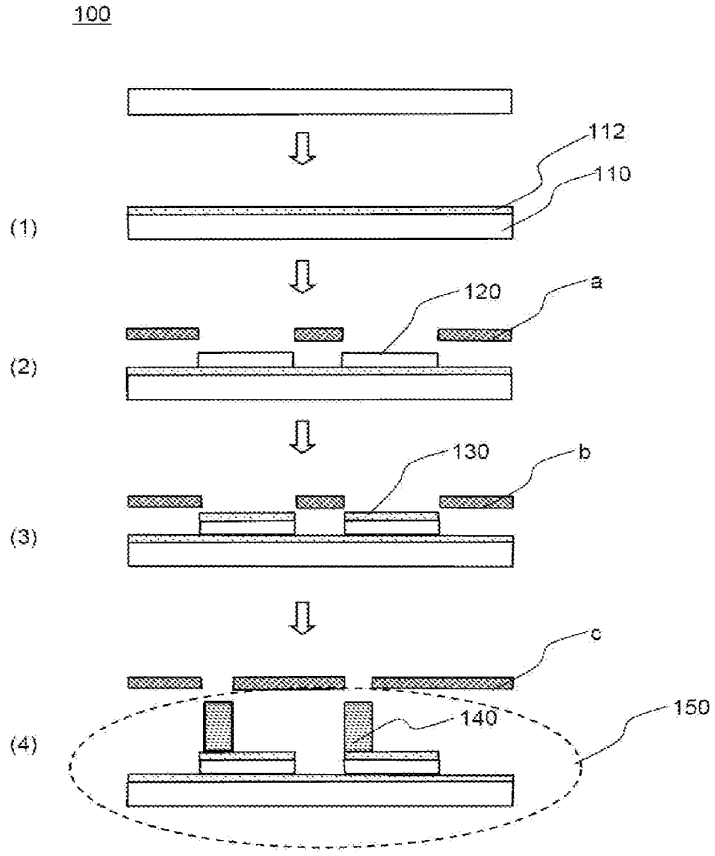
도면

도면1

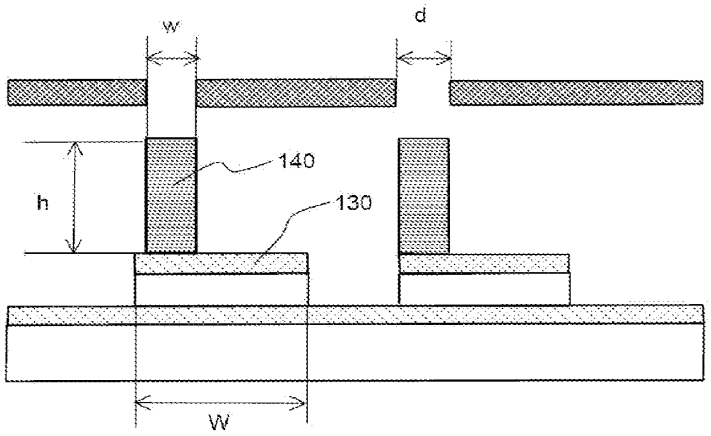


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도면2



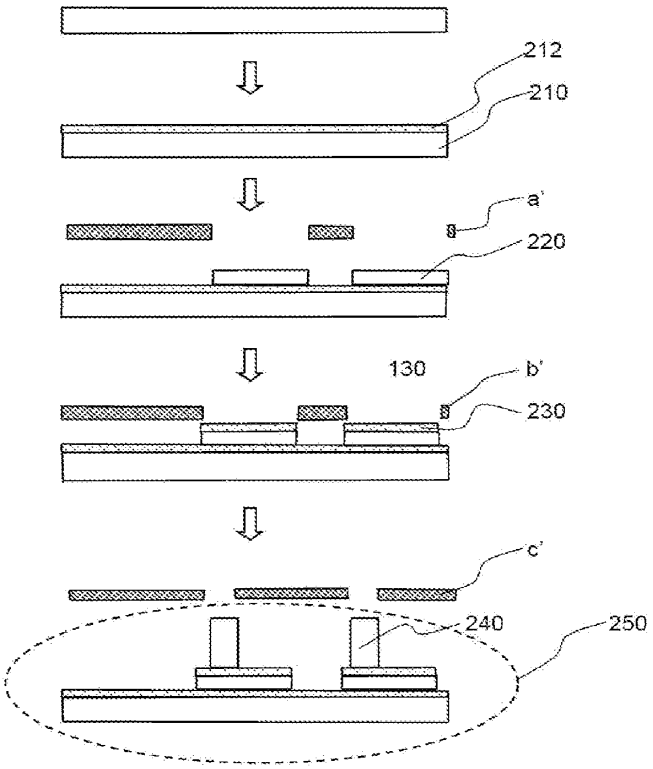
도면3



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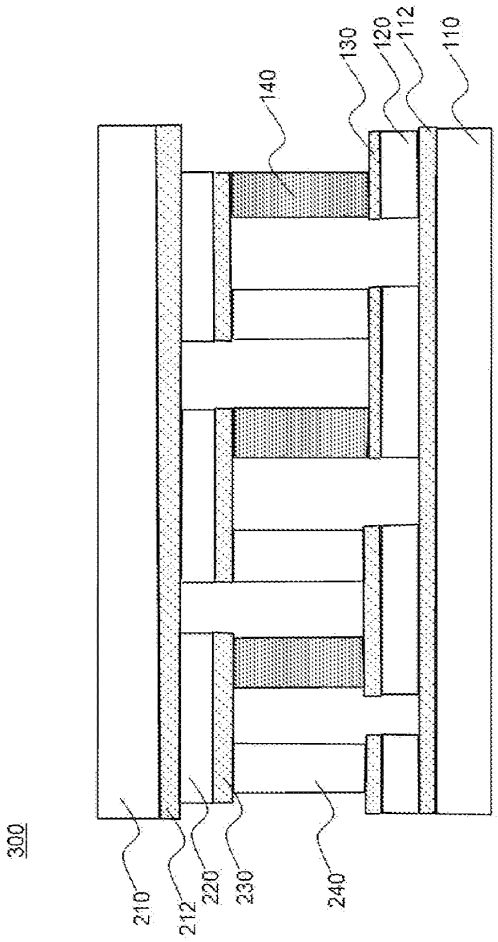
도면4

200



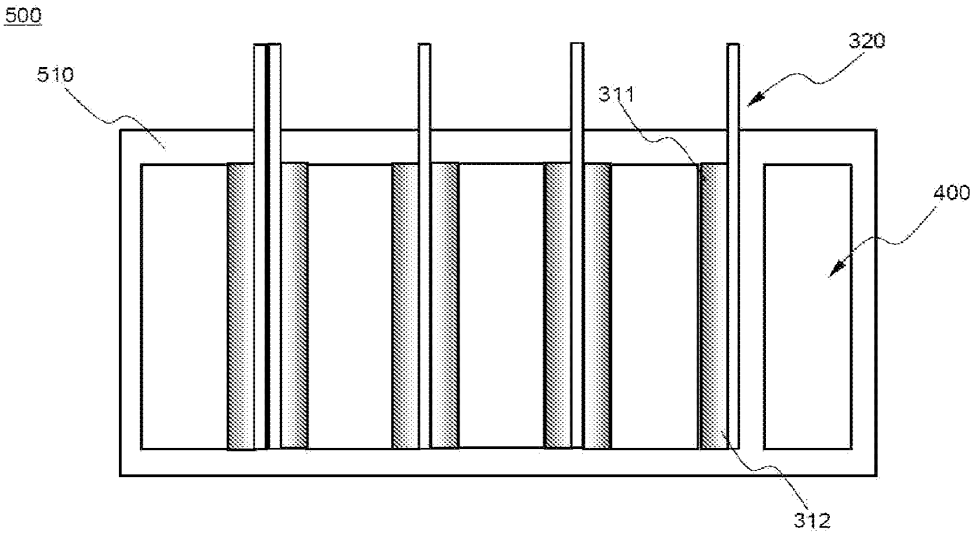
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도 05

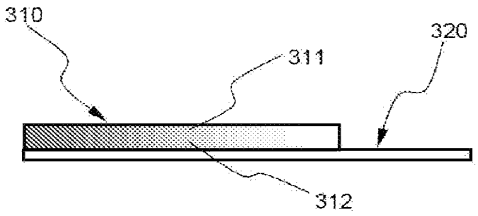


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도면6



도면7



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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

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First Named Inventor	MATTHEW LEAPER			Examiner Name	MARK GAWORECKI		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
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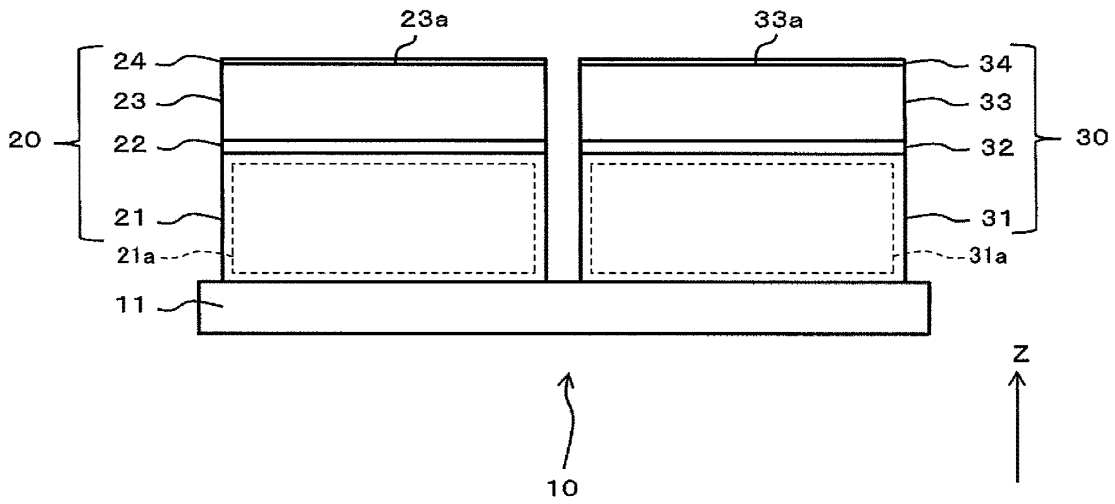
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(54) **Title:** TACTILE-SENSATION PRESENTATION DEVICE

(54) 発明の名称： 触覚呈示装置

［図1］



(57) **Abstract:** Provided is a tactile-sensation presentation device comprising: a contact region to which an operating body comes into contact; a plurality of vibration elements disposed in the contact region; a plurality of temperature presentation elements that are disposed on the plurality of vibration elements and that present temperature information; and a vibration control unit that independently controls each of the plurality of vibration elements.

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一 国際調査報告(条約第21条(3))

(57) 要約: 触覚呈示装置は、操作体が触れる接触領域を有し、前記接触領域に配置された複数の振動素子と、前記複数の振動素子の上に配置され、温冷情報を呈示する複数の温冷呈示素子と、前記複数の振動素子をそれぞれ独立して制御する振動制御部とを備える。

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明　細　書

発明の名称 ： 触覚呈示装置

技術分野

[0001]　本発明は、触覚呈示装置に関する。

背景技術

[0002]　特許文献１においては、ボイスコイルまたは圧電体等の振動発生による触覚呈示装置と、温覚を呈するペルチェ素子と、皮膚温を測定するセンサとが台座上に載置された装置が開示されている。触覚呈示装置とセンサは台座上にそれぞれ直接載置され、ペルチェ素子は触覚呈示装置上に載置される。この構成より、触覚の呈示に、振動だけでなく温度の影響も付加することで、より高い表現力をもった触覚伝達装置を実現することが可能であるとしている。

先行技術文献

特許文献

[0003] 特許文献1：特開平７－７２０１８号公報

発明の概要

発明が解決しようとする課題

[0004]　しかしながら、特許文献１に記載の触覚伝達装置においては、振動と温覚を同時に呈示することは可能ではあるものの、呈示できるのは１つの振動情報と１つの温覚だけであるため、例えば、実際の品物に対応する質感、温度感覚、その品物に力を加えたときの動きや変形などを表現するには、触覚呈示の細かさ、表現力の豊かさ、精度などが不十分であった。

[0005]　そこで本発明は、より細かな触覚呈示を実現することができる触覚呈示装置を提供することを目的とする。

課題を解決するための手段

[0006]　本発明の一側面によれば、触覚呈示装置は、操作体が触れる接触領域を有し、前記接触領域に配置された複数の振動素子と、前記複数の振動素子の上

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に配置され、温冷情報を呈示する複数の温冷呈示素子と、前記複数の振動素子をそれぞれ独立して制御する振動制御部とを備える。

発明の効果

[0007] 本発明の一側面によると、より細かな触覚呈示を実現することができる触覚呈示装置を提供することができる。

図面の簡単な説明

[0008] [図1]本発明の実施形態に係る触覚呈示装置の概略構成を示す側面図である。

[図2]図１に示す触覚呈示装置の平面図である。

[図3]図１に示す触覚呈示装置の機能ブロック図である。

[図4]変形例に係る触覚呈示装置の概略構成を示す平面図である。

[図5]図４に示す触覚呈示装置の平面図である。

発明を実施するための形態

[0009] 以下、本発明の実施形態に係る触覚呈示装置について図面を参照しつつ詳しく説明する。図１は、本発明の実施形態に係る触覚呈示装置１０の概略構成を示す側面図、図２は、図１に示す触覚呈示装置１０の平面図、図３は触覚呈示装置１０の機能ブロック図である。図において矢印Ｚの方向（Ｚ方向）は触覚呈示装置１０の高さ方向を示し、以下の説明において、触覚呈示装置１０の上方からＺ方向と反対方向に見ることを平面視ということがある。

[0010] 図１と図２に示すように、触覚呈示装置１０は、合成樹脂材料からなる基材１１と、基材１１上に配置された２つの触覚生成部２０、３０を含む。触覚生成部２０、３０は互いに独立するように離間して配置されている。

[0011] 図１に示すように、触覚生成部２０は、基材１１上に載置された第１振動素子２１と、第１振動素子２１上に伝導部材２２を介して載置された、温冷呈示素子としての第１ペルチェ素子２３と、第１ペルチェ素子２３の表面２３ａ上に設けられた第１検知部２４を含む。触覚生成部３０は、基材１１上に載置された第２振動素子３１と、第２振動素子３１上に伝導部材３２を介して載置された、温冷呈示素子としての第２ペルチェ素子３３と、第２ペルチェ素子３３の表面３３ａ上に設けられた第２検知部３４を含む。

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[0012] なお、基材１１は、操作装置に設けられた押釦などであってもよい。また、基材１１上に載置する触覚生成部は、互いに独立していれば、その数や配置は任意に設定できる。例えば複数の触覚生成部をマトリックス状に配置してそれぞれの温冷情報及び振動情報を制御することによって、複合的な触覚の呈示が可能となる。

[0013] 図３に示すように、第１及び第２検知部２４、３４による検知結果は制御部１２へ出力され、制御部１２は、第１振動素子駆動回路２５、第１ペルチェ素子駆動回路２６、第２振動素子駆動回路３５、及び、第２ペルチェ素子駆動回路３６のそれぞれに対して、互いに独立した制御信号を出力する。

[0014] 第１及び第２振動素子２１、３１はそれぞれ、例えば、金属製のケース又はカバー（以下「カバー」）２１ａ、３１ａを有し、振動子がケース２１ａ、３１ａの内部で板バネなどの弾性部材によって、振動自在に支持されている。振動子にはコイルが巻かれており、ケース２１ａ、３１ａ内には前記コイルに対向する磁石が固定されている。振動制御部としての制御部１２から、第１振動素子駆動回路２５と第２振動素子駆動回路３５のそれぞれに対して互いに独立した制御信号を与えると、第１振動素子駆動回路２５は第１振動素子２１におけるコイルに対して駆動信号としての交流電流を与え、第２振動素子駆動回路３５は第２振動素子３１におけるコイルに対して駆動信号としての交流電流を与える。これらによって、第１振動素子２１と第２振動素子３１の振動子がそれぞれ振動し、第１及び第２振動素子２１、３１のそれぞれは互いに独立した振動情報を呈示することが可能となる。すなわち、第１及び第２振動素子２１、３１は、制御部１２の制御によって互いに独立して制御され、それぞれが所定の振動情報を呈示する。

[0015] 制御部１２が第１振動素子駆動回路２５と第２振動素子駆動回路３５に与える制御信号は、互いに独立した信号であるとともに、互いに異なる信号とすることができる。互いに異なる制御信号に基づいて第１振動素子２１と第２振動素子３１のそれぞれに与えられる駆動信号は、例えば、駆動パルスの周波数、パルス幅、振幅が互いに異なる信号となり、第１振動素子２１と第

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２振動素子３１は互いに異なる駆動条件で駆動される。これによって、触覚生成部２０、３０の表面には、互いに異なる触覚が呈示され、これらに同時に触れた指には単一のデバイスでは得られない細やかで表現力の高い触覚を呈示することが可能となる。

[0016] また、制御部１２が第１振動素子駆動回路２５に与える制御信号は、第１検知部２４における検知結果などに応じて変更することができ、第２振動素子駆動回路３５に与える制御信号は、第２検知部３４における検知結果などに応じて変更することができる。

[0017] 第１及び第２振動素子２１、３１としては、振動子が磁石で形成され、振動子に対向するコイルがケース内に固定されていてもよい。また、第１及び第２振動素子２１、３１をそれぞれ圧電素子で構成し、制御部１２からの制御信号にしたがって振動する構成としてもよい。

[0018] 伝導部材２２、３２はそれぞれ、例えば両面テープのような粘着性のテープ材である。伝導部材２２は、第１振動素子２１の上面を覆うように配置され、伝導部材３２は、第２振動素子３１の上面を覆うように配置される。伝導部材２２、３２は、その粘着性によって、第１及び第２振動素子２１、３１上にそれぞれ固定され、かつ、それぞれの上に配置された、第１ペルチェ素子２３及び第２ペルチェ素子３３をそれぞれ固定する。このように、伝導部材２２によって第１振動素子２１と第１ペルチェ素子２３が互いに結合され、また、伝導部材３２によって第２振動素子３１と第２ペルチェ素子３３とが互いに結合される。

[0019] 伝導部材２２、３２は、熱伝導部材として、第１ペルチェ素子２３が温冷情報を呈示した際に発生する熱を第１振動素子２１の金属製のケース２１ａへ伝導し、また、第２ペルチェ素子３３が温冷情報を呈示した際に発生する熱を第２振動素子３１の金属製のケース３１ａへそれぞれ伝導する。さらに、伝導部材２２、３２は、振動伝導部材として、第１及び第２振動素子２１、３１が呈示した振動情報を第１ペルチェ素子２３と第２ペルチェ素子３３にそれぞれ伝導する。

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[0020] このように伝導部材２２、３２が粘着性及び振動伝導性を有するため、第１ペルチェ素子２３及び第２ペルチェ素子３３を経て第１検知部２４の表面（Ｚ方向上側の面）及び第２検知部３４の表面に、第１及び第２振動素子２１、３１が呈示した振動情報がそれぞれ効率よく伝えられる。さらに、伝導部材２２、３２が熱伝導性を有するため、伝導部材２２、３２は第１ペルチェ素子２３や第２ペルチェ素子３３で発生した熱を拡散できるとともに、第１ペルチェ素子２３と第２ペルチェ素子３３の裏面（Ｚ方向下側の面）から第１及び第２振動素子２１、３１の特に金属製のケース２１ａ、３１ａへ熱を効率よく伝導させ、金属製のケース２１ａ、３１ａをヒートシンクとして利用することで放熱効率を高めることができる。

[0021] 温冷呈示素子としての第１ペルチェ素子２３と第２ペルチェ素子３３は、それぞれ、例えば、Ｚ方向において対向する２枚の金属板の接合部に第１ペルチェ素子駆動回路２６又は第２ペルチェ素子駆動回路３６から直流電流を与えたときのペルチェ効果の熱の移動を利用したものであり、電流方向に応じて２枚の金属板の表面における熱量が変化する。第１ペルチェ素子駆動回路２６から第１ペルチェ素子２３に与えられる駆動信号としての電流、及び、第２ペルチェ素子駆動回路３６から第２ペルチェ素子３３に与えられる駆動信号としての電流は、制御部１２から与えられる制御信号に基づいて互いに独立して生成される。第１ペルチェ素子２３と第２ペルチェ素子３３に与える電流の方向と電流量を制御することで、第１ペルチェ素子２３又は第２ペルチェ素子３３に触れた指に温かい温度や冷たい温度を感じさせることが可能となり、これらに同時に触れた指に対して、細やかで表現力の高い温冷情報を呈示することができる。

[0022] ここで、温冷呈示素子としては、ペルチェ素子のほかに、トムソン効果を用いた熱電素子を用いることもでき、また、温冷呈示素子に代えて、温感情報を呈示する素子、例えばヒータを用いることもできる。

[0023] 第１振動素子２１と第２振動素子３１は、基材１１上において互いに独立するように離間して配置される。第１振動素子２１上に配置される、伝導部

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材２２、第１ペルチェ素子２３、及び第１検知部２４と、第２振動素子３１上に配置される、伝導部材３２、第２ペルチェ素子３３、及び第２検知部３４もそれぞれ互いに独立し、離間して配置されている。これによって、第１振動素子２１と第２振動素子３１は、それぞれ、となりの振動素子が発生する振動情報による影響を受けにくくなっているため、効率的に振動情報を呈示できる。同様に、第１ペルチェ素子２３と第２ペルチェ素子３３は、それぞれ、となりのペルチェ素子が呈示する温冷情報による影響を受けにくくなっていることから、効率的に温冷情報を呈示することができる。となりの振動素子やペルチェ素子からの影響をさらに受けにくくするために、第１振動素子２１と第２振動素子３１の間に弾性材を配置し、第１ペルチェ素子２３と第２ペルチェ素子３３との間に断熱材を配置することが好ましい。または、触覚生成部２０、３０の間に、弾性と断熱性を備えた材料を配置してもよい。

[0024] 図３に示すように、第１ペルチェ素子２３は第１ペルチェ素子駆動回路２６を介して制御部１２に接続され、また、第２ペルチェ素子３３は第２ペルチェ素子駆動回路３６を介して制御部１２に接続されており、第１ペルチェ素子２３と第２ペルチェ素子３３は、温度制御部としての制御部１２によって、互いに独立して温度制御される。例えば、第１ペルチェ素子２３と第２ペルチェ素子３３の一方に触れた指には温かい温度を感じさせ、他方に触れた指には冷たい温度を感じさせるような温冷情報を第１ペルチェ素子２３と第２ペルチェ素子３３で呈示させることができる。また、第１ペルチェ素子２３と第２ペルチェ素子３３を、これに触れた指に対し、互いに異なる温かい温度を感じさせるようにすることもできる。

[0025] ここで、触れた手や指（操作体）に温かい温度を感じさせるように温刺激を与える温刺激部としてのペルチェ素子と、冷たい温度を感じさせるように冷刺激を与える冷刺激部としてのペルチェ素子とを交互に並置した場合、痛覚の生じない温度刺激の組み合わせ（２０°Ｃと４０°Ｃなど）でも痛覚が生起する（Ｔｈｅｒｍａｌ　Ｇｒｉｌｌ　Ｉｌｌｕｓｉｏｎ）。例えば４°

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Ｃ／ｓ以上などある程度以上の強い温刺激と冷刺激を、上述の温刺激部と冷刺激部のそれぞれから同時に呈示することで、痛覚を生じさせることができる。

[0026] さらにまた、ペルチェ素子に接触することによる温冷刺激前の指の皮膚温度（順応温度）は、温感と冷感の感じやすさ（閾値）に影響を与える。温感を呈示したいときは、ペルチェ素子に接触した指先の温度が高い方が温感を感じやすくなり、冷感を呈示したいときは、ペルチェ素子に接触した指先の温度が低い方が冷感を感じやすくなる。順応温度とはそのような温度のことである。別言すれば、指は、順応温度が高いほど温刺激を感じやすくなり、また、順応温度が低いほど冷刺激を感じやすくなる。したがって、温度検知素子（不図示）により指の皮膚温度を正確に把握し、その結果を元にペルチェ素子を駆動させ皮膚温度を上昇させる、もしくは下降させると、小さな温度変化で温冷刺激を明瞭に呈示できる。例えば、温感を呈示したい場合、指先温度が３２°Ｃであれば、２°Ｃ高い３４°Ｃにすると「温かい」と感じ、また、指先温度が３５°Ｃであるときは、１°Ｃ高い３６°Ｃにするだけで「温かい」と感じる。一方、冷感を呈示したい場合、指先温度が３２°Ｃであれば、１°Ｃ低い３１°Ｃにすると「冷たい」と感じ、また、指先温度が２９°Ｃの場合、０．５°Ｃ低い２８．５°Ｃにするだけで「冷たい」と感じる。

[0027] 図１に示すように、第１ペルチェ素子２３の表面２３ａ及び第２ペルチェ素子３３の表面３３ａには、第１検知部２４及び第２検知部３４がそれぞれ固定されている。第１及び第２検知部２４、３４は、第１ペルチェ素子２３及び第２ペルチェ素子３３の熱を、操作体としての指に伝達できるように薄い構造となっている。

[0028] 第１検知部２４及び第２検知部３４は、その上面が操作体としての指が接触可能な接触部を構成する。第１検知部２４及び第２検知部３４は、それぞれ、第１ペルチェ素子２３及び第２ペルチェ素子３３の上に貼られた樹脂フィルムの基板を有している。樹脂フィルムの基板は、熱伝導を容易にするよ

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うに薄い。第１検知部２４及び第２検知部３４は、静電検知部であり、それぞれ、前記基板に単一の電極層が設けられた自己容量検知型、又は、前記基板に互いに絶縁された複数の電極層が設けられた相互容量検知型である。電極と操作体である指との間の静電容量の変化、又は複数の電極間の静電容量の変化により、第１検知部２４又は第２検知部３４に指が触れたことを検知できる。また、相互容量検知型では、第１検知部２４又は第２検知部３４のどの座標位置に指が触れたのかも検知も可能である。

[0029] 第１検知部２４と第２検知部３４による検知結果は、それぞれ制御部１２へ出力され、制御部１２は、検知結果に基づいて、振動情報を呈示させるために第１振動素子駆動回路２５と第２振動素子駆動回路３５のそれぞれへ制御信号を与え、また、温冷情報を呈示させるために第１ペルチェ素子駆動回路２６と第２ペルチェ素子駆動回路３６のそれぞれへ制御信号を与える。これらの結果、第１振動素子２１の駆動によって生じた振動情報と第１ペルチェ素子２３で生成された温冷情報とを含む触覚が第１検知部２４に触れた指に対して呈示され、また、第２振動素子３１の駆動によって生じた振動情報と第２ペルチェ素子３３で生成された温冷情報とを含む触覚が第２検知部３４に触れた指に対して呈示される。

[0030] なお、第１検知部２４と第２検知部３４は、指が接触すると抵抗値が変化する可変抵抗センサなどで構成されていてもよい。また、基材１１が操作装置に設けられた押釦に設けられている場合には、押釦を押すことで、操作装置内部のスイッチやセンサが動作して、押釦が押されたことが検知されるものであってもよい。この場合には、操作装置内部のスイッチやセンサが検知部として機能するため、第１ペルチェ素子２３と第２ペルチェ素子３３の表面の第１検知部２４と第２検知部３４を省略してもよい。

[0031] また、第１検知部２４と第２検知部３４に温度センサをそれぞれ設け、第１ペルチェ素子２３と第２ペルチェ素子３３の表面温度を測定し、測定した温度と設定温度との差に基づいて第１ペルチェ素子２３と第２ペルチェ素子３３のそれぞれに与える制御信号を調整することが好ましい。

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[0032] 図２に示すように、平面視において、第１検知部２４と第２検知部３４を設けた領域の外形形状は、操作体としての指の操作面に対応する接触領域Ａとほぼ一致している。ここで、指の操作面は指の腹であり、上記接触領域Ａは指の腹が第１検知部２４と第２検知部３４の双方に接触する範囲に対応する。指が第１検知部２４に接触したとき、第２検知部３４も同時に指に接触する。第１検知部２４と第２検知部３４を設けた領域は、上記接触領域Ａに対して面積や外形形状が同一であることが最も好ましいが、指が第１検知部２４と第２検知部３４の両方に同時に接触可能であれば、接触領域Ａの方が広くてもよいし、第１検知部２４と第２検知部３４の領域の方が広くても良い。ただし、指が第１検知部２４と第２検知部３４のそれぞれに接触する面積は、ともに５０％以上の面積となることが好ましい。

[0033] 次に触覚呈示装置１０の操作と触覚呈示の例について説明する。

[0034] 第１検知部２４及び第２検知部３４に指が接触したことが検知されると、制御部１２は、第１ペルチェ素子２３及び第２ペルチェ素子３３のそれぞれに温冷情報を呈示させるために、第１ペルチェ素子駆動回路２６と第２ペルチェ素子駆動回路３６に対して温冷制御信号を与え、第１振動素子２１及び第２振動素子３１のそれぞれに振動情報を呈示させるために第１振動素子駆動回路２５と第２振動素子駆動回路３５に対して振動制御信号を与える。

[0035] 第１ペルチェ素子駆動回路２６と第２ペルチェ素子駆動回路３６では、与えられた温冷制御信号にしたがって駆動信号がそれぞれ生成され、第１ペルチェ素子２３及び第２ペルチェ素子３３にそれぞれ与えられる。これによって、第１ペルチェ素子２３の表面２３ａと第２ペルチェ素子３３の表面３３ａにおいて、熱量が変化し、これによって、第１検知部２４及び第２検知部３４を伝わって指で感じる温度が上下する。

[0036] また、第１振動素子駆動回路２５及び第２振動素子駆動回路３５では、与えられた振動制御信号にしたがって駆動信号がそれぞれ生成され、第１振動素子２１及び第２振動素子３１にそれぞれ与えられる。これにより、第１振動素子２１及び第２振動素子３１において振動が発生し、第１振動素子２１

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での振動は伝導部材２２、第１ペルチェ素子２３、及び、第１検知部２４を経て、また、第２振動素子３１での振動は伝導部材３２、第２ペルチェ素子３３、及び、第２検知部３４を経て、それぞれ指に与えられる。

[0037] ここで、第１振動素子２１における振動情報の呈示、第１ペルチェ素子２３における温冷情報の呈示、第２振動素子３１における振動情報の呈示、及び、第２ペルチェ素子３３における温冷情報の呈示は、制御部１２からの制御信号にしたがって、互いに独立して制御されている。また、これらの振動情報や温冷情報の呈示はすべて同時に行っても良いし、別個に又は２以上を組み合わせて行っても良い。

[0038] ここで、第１検知部２４と第２検知部３４に対する指の接触時間や接触圧に応じて、第１ペルチェ素子２３と第２ペルチェ素子３３で呈示する温冷情報や、第１振動素子２１や第２振動素子３１で呈示する振動情報を変化させてもよい。例えば、接触時間が長くなるほど、上昇させた温度をさらに上昇させ、又は、下降させた温度をさらに下降させたり、振動強度をさらに強くしたりする。また、指の移動を検知して、その移動の方向や距離に基づいて、振動の周波数やデューティ比を変化させたり、温度を変化させる。

[0039] また、図３に例示するように、インターフェースＩ／Ｆを介して制御部１２を外部のアプリケーションや計測側システム、例えば表示装置に接続することができる。表示装置に接続した場合、表示装置に模擬的な接触動作の対象となる物体の情報が呼び出されている状態で、第１検知部２４と第２検知部３４のいずれか、又は、両方に指が接触したことを検知したときに、その検知結果に応じて、第１ペルチェ素子２３と第２ペルチェ素子３３における温冷情報や、第１振動素子２１と第２振動素子３１における振動情報を適宜組み合わせて変化させ、これによって、表示装置に表示された物体に実際に触れているかのような触覚を呈示することができる。さらに、指の接触の強度や時間に対応した信号を制御部１２から表示装置へ与え、この信号に基づいて、表示装置で表示された物体の画像を変化させてもよい。

[0040] 以下に変形例について説明する。

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[0041] 上記実施形態の触覚呈示装置１０では、触覚生成部２０、３０のそれぞれにおいて、１つの振動素子上に１つのペルチェ素子を配置した構成を示したが、一部又はすべての触覚生成部において、１つの振動素子上に複数のペルチェ素子を配置した構成とすることもできる。これにより、さらに複雑で細かな触覚を呈示することが可能となる。

[0042] 例えば、図４と図５に示す触覚呈示装置５０のように１つの振動素子の上に２つのペルチェ素子を配置する。図４は、変形例に係る触覚呈示装置５０の概略構成を示す側面図、図５は、図４に示す触覚呈示装置５０の平面図である。図４と図５に示す触覚呈示装置５０においては、基材５１上に２つの振動素子６１、８１が互いに独立するように離間して配置されている。基材５１及び振動素子６１、８１は、上記実施形態の基材１１並びに第１及び第２振動素子２１、３１と同様の構成である。

[0043] 振動素子６１上には、２つの伝導部材６２、７２が互いに離間して配置され、伝導部材６２上にはペルチェ素子６３が載置され、ペルチェ素子６３の表面６３ａには検知部６４が設けられている。また、伝導部材７２上にはペルチェ素子７３が載置され、ペルチェ素子７３の表面７３ａには検知部７４が設けられている。この構成により、振動素子６１で発生した振動は検知部６４、７４のそれぞれに伝達される。

[0044] また、振動素子８１上には、２つの伝導部材８２、９２が互いに離間して配置され、伝導部材８２上にはペルチェ素子８３が載置され、ペルチェ素子８３の表面８３ａには検知部８４が設けられている。また、伝導部材９２上にはペルチェ素子９３が載置され、ペルチェ素子９３の表面９３ａには検知部９４が設けられている。この構成により、振動素子８１で発生した振動は検知部８４、９４のそれぞれに伝達される。

[0045] ここで、伝導部材６２、７２、８２、９２は上記実施形態の伝導部材２２、３２と同様の構成であり、ペルチェ素子６３、７３、８３、９３は上記実施形態の第１及び第２ペルチェ素子２３、３３と同様の構成であり、検知部６４、７４、８４、９４は上記実施形態の第１及び第２検知部２４、３４と

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同様の構成である。

[0046] 図５に示すように、平面視において、検知部６４、７４、８４、９４を設けた領域の外形形状は、操作体としての指の操作面に対応する接触領域Ｂとほぼ一致している。ここで、指の操作面は指の腹であり、上記接触領域Ｂは指の腹が検知部６４、７４、８４、９４に接触する範囲に対応する。指がいずれかの検知部に接触したとき、ほかの検知部にも同時に指に接触する。検知部６４、７４、８４、９４を設けた領域は、上記接触領域Ｂに対して面積や外形形状が同一であることが最も好ましいが、指が検知部６４、７４、８４、９４のすべてに同時に接触可能であれば、接触領域Ｂの方が広くてもよいし、検知部６４、７４、８４、９４の領域の方が広くても良い。ただし、指が検知部６４、７４、８４、９４のそれぞれに接触する面積は、ともに５０％以上の面積となることが好ましい。

[0047] 本発明の一側面によれば、触覚呈示装置は、操作体が触れる接触領域を有し、前記接触領域に配置された複数の振動素子と、前記複数の振動素子の上に配置され、温冷情報を呈示する複数の温冷呈示素子と、前記複数の振動素子をそれぞれ独立して制御する振動制御部とを備える。

[0048] これにより、接触領域に触れた操作体に対して、複数の振動素子からの振動情報と複数の温冷呈示素子からの温冷情報とを同時に呈示できるため、より複雑で細かな触覚呈示を実現することができる。

[0049] 本発明の一側面によれば、触覚呈示装置において、複数の振動素子のそれぞれの上には、１つ又は複数の温冷呈示素子が配置されていることが好ましい。さらに、複数の振動素子のそれぞれの上には温冷呈示素子が１つずつ配置されていることが好ましい。

[0050] これにより、各振動素子による振動情報に、１つ又は複数の温冷情報を組み合わせることが可能となるため、より細かな触覚を呈示することができる。

[0051] 本発明の一側面によれば、触覚呈示装置において、複数の振動素子は互いに異なる駆動条件で駆動されることが好ましい。

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[0052] これにより、さらに複雑で豊かな触覚表現ができるようになる。

[0053] 本発明の一側面によれば、触覚呈示装置において、複数の温冷呈示素子はペルチェ素子であることが好ましい。

[0054] これにより、効率よく温冷情報を呈示させることができる。

[0055] 本発明の一側面によれば、触覚呈示装置は、複数のペルチェ素子と複数の振動素子との間に配置された伝導部材を更に有し、伝導部材は、複数のペルチェ素子のそれぞれが温冷情報を呈示した際に発生する熱を複数の振動素子に伝導する熱伝導部材と、複数の振動素子が呈示した振動情報を複数のペルチェ素子に伝導する振動伝導部材とを備えることが好ましい。

[0056] これにより、ペルチェ素子の表面に振動素子による振動情報を効率よく伝えることができ、また、ペルチェ素子からの熱を振動素子へ効率よく伝導させることにより放熱効果を高めることができ、切り替えの速い触覚呈示が可能となる。

[0057] 本発明の一側面によれば、触覚呈示装置において、伝導部材は粘着性を有し、複数のペルチェ素子を複数の振動素子に結合していることが好ましい。

[0058] これにより、振動素子が呈示した振動情報をペルチェ素子に確実に伝えることができ、また、ペルチェ素子で発生した熱を効率よく放熱させることができる。

[0059] 本発明の一側面によれば、触覚呈示装置において、複数の振動素子はそれぞれ金属のカバーを備えており、伝導部材は、金属のカバーと複数のペルチェ素子を結合していることが好ましい。

[0060] これにより、ペルチェ素子で発生した熱をさらに効率的に放熱させることができる。

[0061] 以上、触覚呈示装置を実施形態に基づいて説明したが、本発明は具体的に開示された実施形態に限定されず、本発明の範囲を逸脱することなく様々な変形及び改良がなされ得る。

[0062] 本国際出願は、２０１７年２月６日に出願した日本国特許出願２０１７－０１９１９２号に基づく優先権を主張するものであり、その全内容を参照に

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よりここに援用する。

産業上の利用可能性

[0063] 以上のように、本発明の実施形態に係る触覚呈示装置は、より細かな触覚呈示を実現することができる点で有用である。

符号の説明

[0064]

１０　触覚呈示装置
１１　基材
１２　制御部
２０　触覚生成部
２１　第１振動素子
２２　伝導部材
２３　第１ペルチェ素子
２４　第１検知部
２５　第１振動素子駆動回路
２６　第１ペルチェ素子駆動回路
３０　触覚生成部
３１　第２振動素子
３２　伝導部材
３３　第２ペルチェ素子
３４　第２検知部
３５　第２振動素子駆動回路
３６　第２ペルチェ素子駆動回路
５０　触覚呈示装置
５１　基材
６１、８１　振動素子
６２、７２、８２、９２　伝導部材
６３、７３、８３、９３　ペルチェ素子
６４、７４、８４、９４　検知部

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請求の範囲

[請求項1] 操作体が触れる接触領域を有する触覚呈示装置であって、前記接触領域に配置された複数の振動素子と、前記複数の振動素子の上に配置され、温冷情報を呈示する複数の温冷呈示素子と、前記複数の振動素子をそれぞれ独立して制御する振動制御部とを備えることを特徴とする触覚呈示装置。

[請求項2] 前記複数の振動素子のそれぞれの上には、１つ又は複数の前記温冷呈示素子が配置されている請求項１に記載の触覚呈示装置。

[請求項3] 前記複数の振動素子のそれぞれの上には、前記温冷呈示素子が１つずつ配置されている請求項２に記載の触覚呈示装置。

[請求項4] 前記複数の振動素子は互いに異なる駆動条件で駆動される請求項１から請求項３のいずれか１項に記載の触覚呈示装置。

[請求項5] 前記複数の温冷呈示素子はペルチェ素子である請求項１から請求項４のいずれか１項に記載の触覚呈示装置。

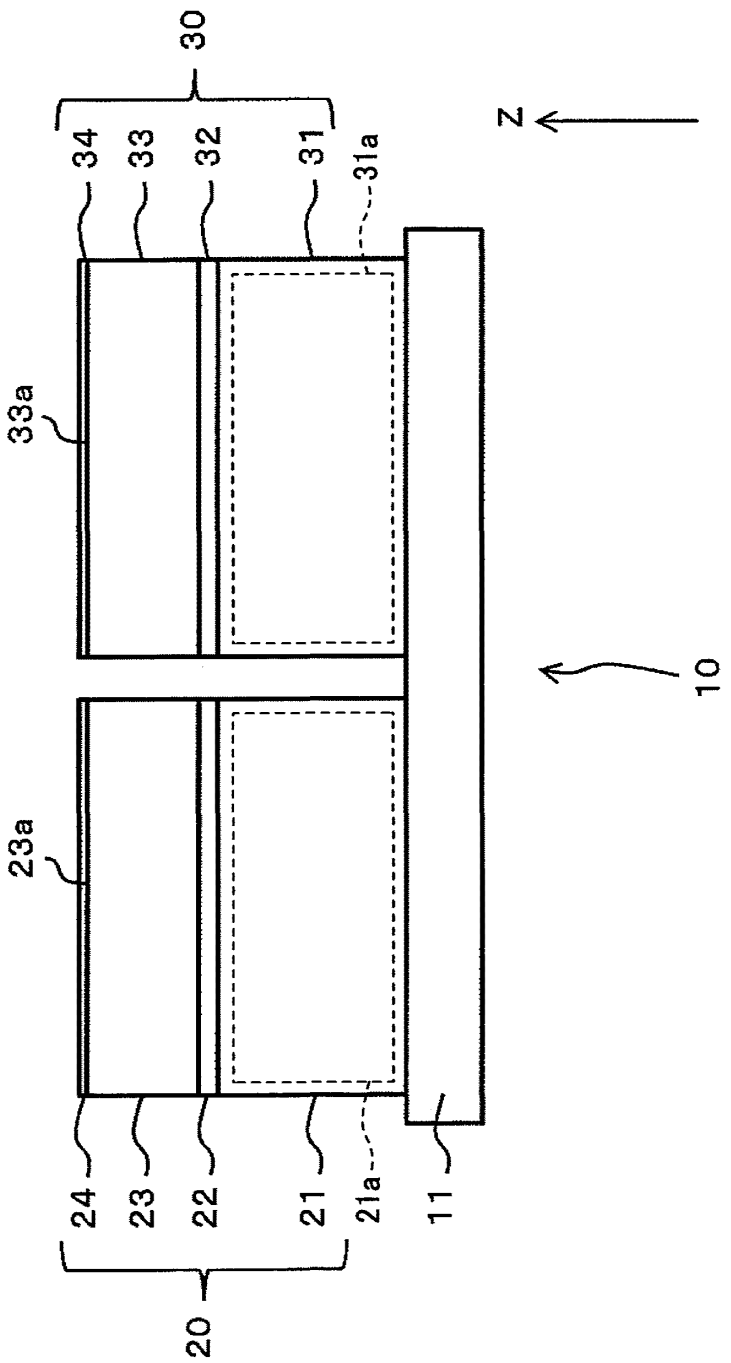
[請求項6] 前記複数のペルチェ素子と前記複数の振動素子との間に配置された伝導部材を更に有し、前記伝導部材は、前記複数のペルチェ素子のそれぞれが温冷情報を呈示した際に発生する熱を前記複数の振動素子に伝導する熱伝導部材と、前記複数の振動素子が呈示した振動情報を前記複数のペルチェ素子に伝導する振動伝導部材とを備える請求項５に記載の触覚呈示装置。

[請求項7] 前記伝導部材は粘着性を有し、前記複数のペルチェ素子を前記複数の振動素子に結合している請求項６に記載の触覚呈示装置。

[請求項8] 前記複数の振動素子はそれぞれ金属のカバーを備えており、前記伝導部材は、該金属のカバーと前記複数のペルチェ素子を結合している請求項７に記載の触覚呈示装置。

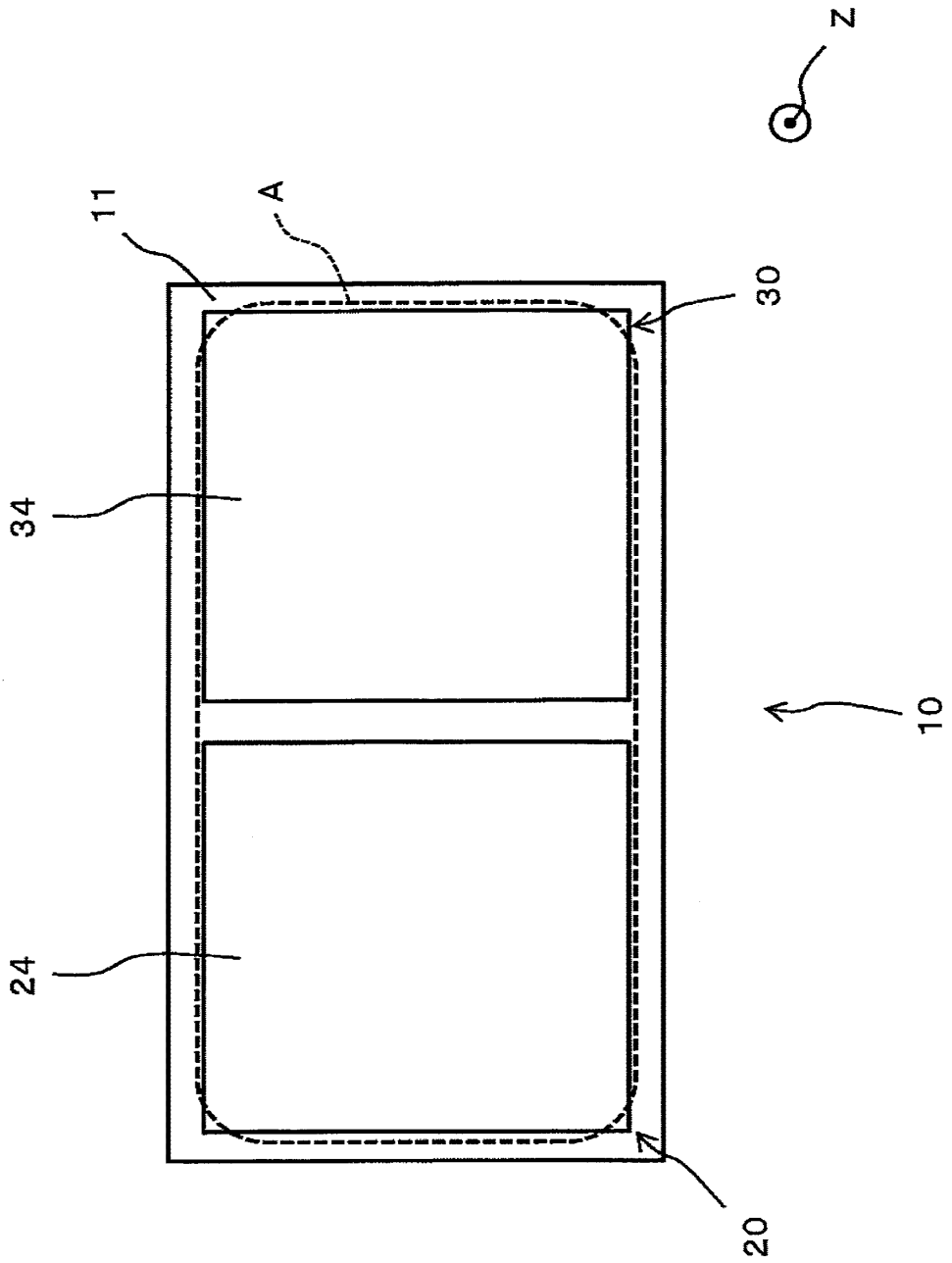
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[図1]



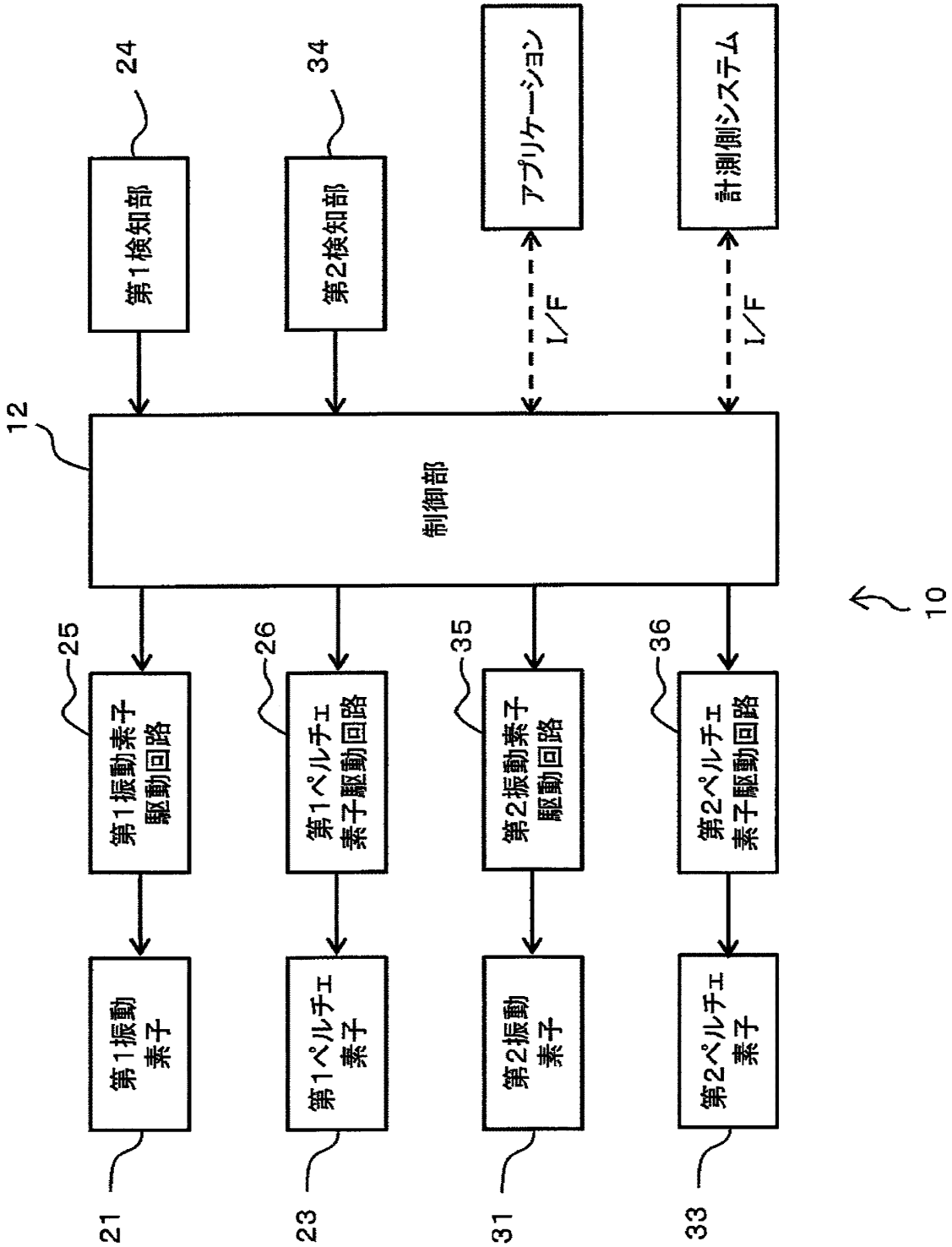
Petitioner Therabody Ex-1004, 1452

[図2]



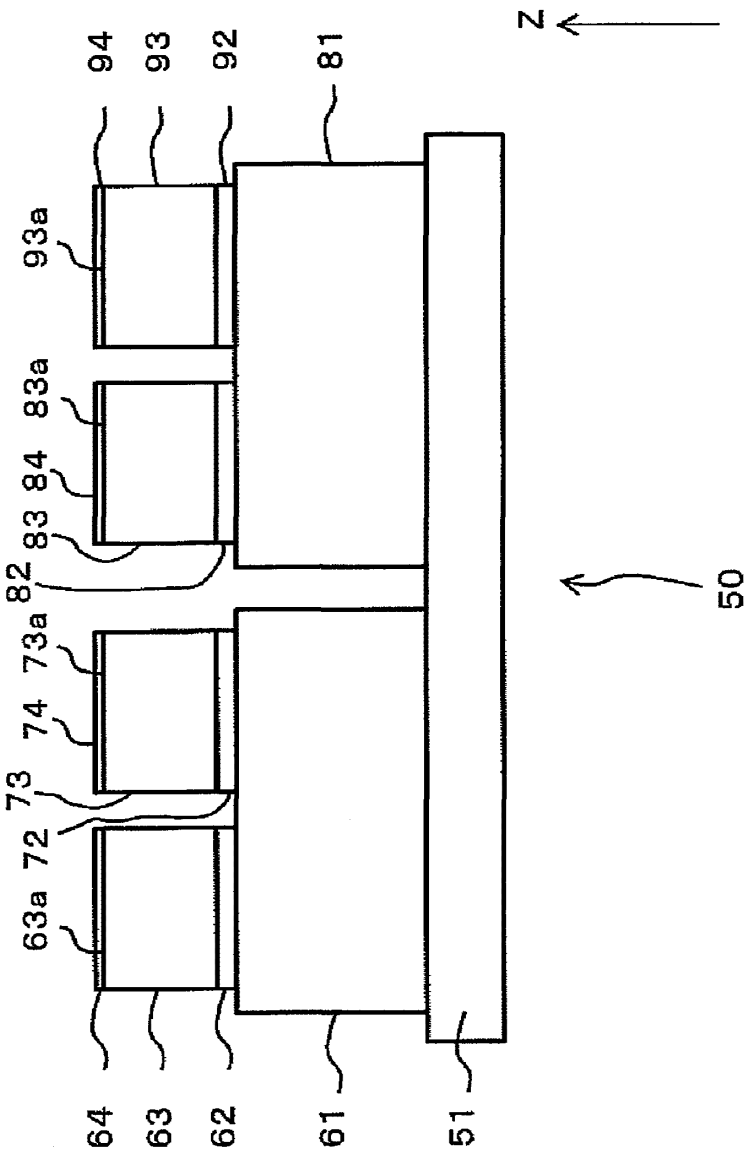
Petitioner Therabody Ex-1004, 1453

[図3]

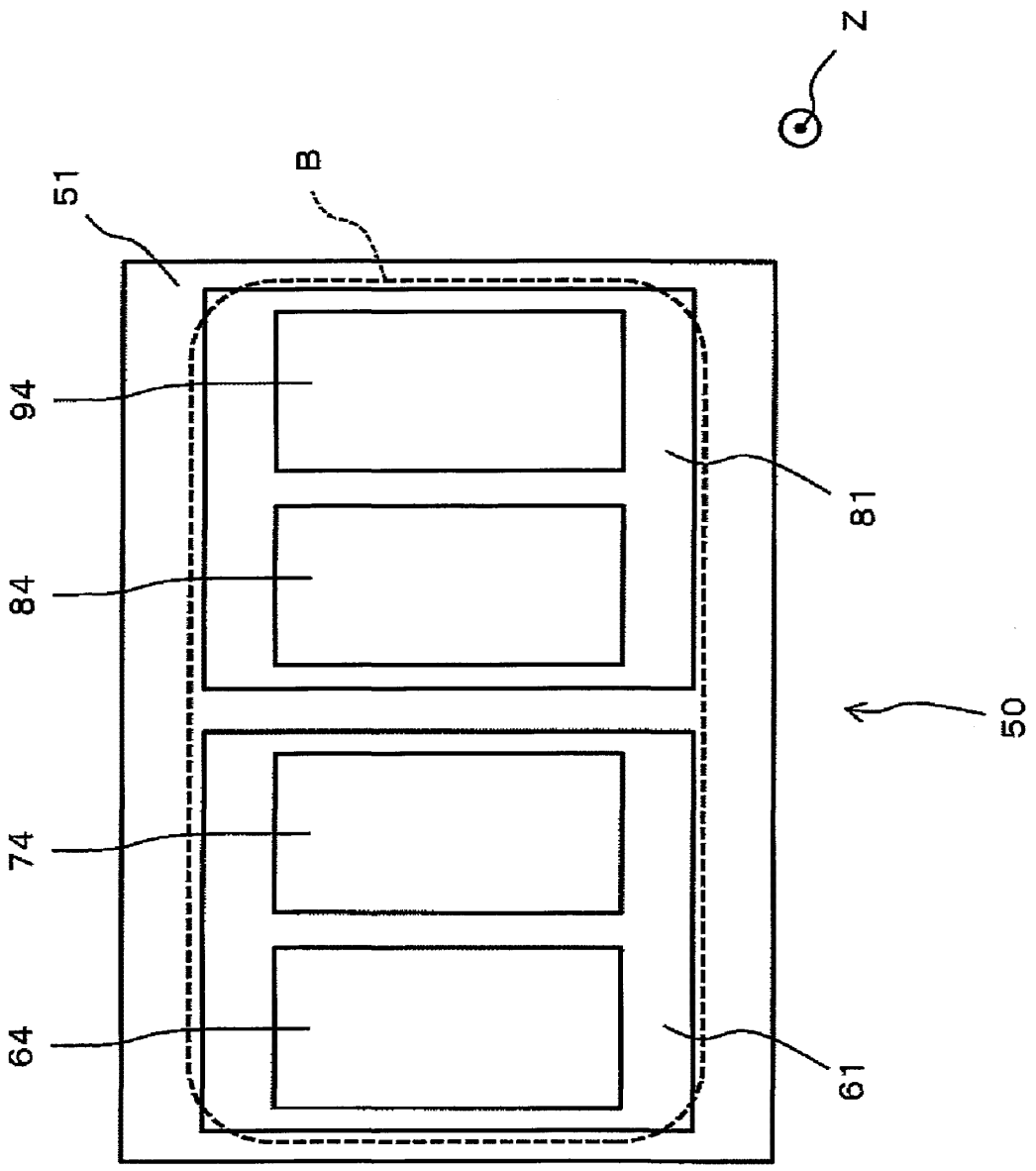


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[図4]



[図5]



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2018/003625

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl. G06F3/01(2006.01)i, G06F3/041(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl. G06F3/01, G06F3/041

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2018
Registered utility model specifications of Japan	1996-2018
Published registered utility model applications of Japan	1994-2018

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2003-091233 A (SAITO, Toru) 28 March 2003, paragraphs [0023]-[0025], [0072], [0075]-[0077], [0092], fig. 2, 9, 11 (Family: none)	1-7 8
Y A	WO 2013/073234 A1 (NEC TOKIN CORP.) 23 May 2013, paragraph [0016] & TW 201324279 A1, paragraph [0016]	8 1-7
Y A	WO 2014/046279 A1 (KYOCERA CORP.) 27 March 2014, paragraphs [0020]-[0023] & US 2015/0212579 A1, paragraphs [0034]-[0037]	8 1-7

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
04 April 2018 (04.04.2018)	17 April 2018 (17.04.2018)

Name and mailing address of the ISA/	Authorized officer
Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No.

Form PCT/ISA/210 (second sheet) (January 2015)

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2018/003625

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2007-026297 A (NTT DOCOMO INC.) 01 February 2007, paragraphs [0119]-[0120], fig. 19 (Family: none)	1-8
A	JP 2005-234881 A (NEC CORP.) 02 September 2005, entire text, all drawings (Family: none)	1-8
A	WO 2016/036443 A1 (INTEL CORPORATION) 10 March 2016, entire text, all drawings & US 2016/0070348 A1 & EP 3189401 A1 & KR 10-2017-0026567 A & TW 201626161 A & JP 2017-527039 A	1-8
A	WO 2017/006670 A1 (ALPS ELECTRIC CO., LTD.) 12 January 2017, entire text, all drawings & CN 107735750 A, entire text, all drawings	1-8
A	JP 07-072018 A (OLYMPUS OPTICAL CO., LTD.) 17 March 1995, entire text, all drawings (Family: none)	1-8

Form PCT/ISA/210 (continuation of second sheet) (January 2015)

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国際調査報告

国際出願番号　ＰＣＴ／ＪＰ２０１８／００３６２５

Ａ．　発明の属する分野の分類（国際特許分類（ＩＰＣ））

Int.Cl.　G06F3/01(2006.01)i, G06F3/041(2006.01)i

Ｂ．　調査を行った分野

調査を行った最小限資料（国際特許分類（ＩＰＣ））

Int.Cl.　G06F3/01, G06F3/041

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	１９２２－１９９６年
日本国公開実用新案公報	１９７１－２０１８年
日本国実用新案登録公報	１９９６－２０１８年
日本国登録実用新案公報	１９９４－２０１８年

国際調査で使用した電子データベース（データベースの名称、調査に使用した用語）

Ｃ．　関連すると認められる文献

引用文献のカテゴリー＊	引用文献名　及び一部の箇所が関連するときは、その関連する箇所の表示	関連する請求項の番号
X Y	JP 2003-091233 A（齋藤　透）2003.03.28, 段落[0023]－[0025], [0072], [0075]－[0077], [0092], 図２, ９, 11（ファミリーなし）	1-7 8
Y A	WO 2013/073234 A1（ＮＥＣトーキン株式会社）2013.05.23, 段落[0016] & TW 201324279 A1, 段落[0016]	8 1-7
Y A	WO 2014/046279 A1（京セラ株式会社）2014.03.27, 段落[0020]－[0023] & US 2015/0212579 A1, 段落[0034]－[0037]	8 1-7

☑　Ｃ欄の続きにも文献が列挙されている。　　☐　パテントファミリーに関する別紙を参照。

＊　引用文献のカテゴリー
「Ａ」特に関連のある文献ではなく、一般的技術水準を示すもの
「Ｅ」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの
「Ｌ」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献（理由を付す）
「Ｏ」口頭による開示、使用、展示等に言及する文献
「Ｐ」国際出願日前で、かつ優先権の主張の基礎となる出願の日の後に公表された文献
「Ｔ」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
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「Ｙ」特に関連のある文献であって、当該文献と他の１以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
「＆」同一パテントファミリー文献

国際調査を完了した日 ０４．０４．２０１８	国際調査報告の発送日 １７．０４．２０１８
国際調査機関の名称及びあて先 日本国特許庁（ＩＳＡ／ＪＰ） 郵便番号１００－８９１５ 東京都千代田区霞が関三丁目４番３号	特許庁審査官（権限のある職員）　５Ｅ　５８７７ 酒井　優一 電話番号　０３－３５８１－１１０１　内線　３５２１

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Ｃ（続き）．　関連すると認められる文献

引用文献のカテゴリー＊	引用文献名　及び一部の箇所が関連するときは、その関連する箇所の表示	関連する請求項の番号
A	JP 2007-026297 A (株式会社エヌ・ティ・ティ・ドコモ) 2007.02.01, 段落[0119]－[0120], 図 19 (ファミリーなし)	1-8
A	JP 2005-234881 A (日本電気株式会社) 2005.09.02, 全文, 全図 (ファミリーなし)	1-8
A	WO 2016/036443 A1 (INTEL CORPORATION) 2016.03.10, 全文, 全図 & US 2016/0070348 A1 & EP 3189401 A1 & KR 10-2017-0026567 A & TW 201626161 A & JP 2017-527039 A	1-8
A	WO 2017/006670 A1 (アルプス電気株式会社) 2017.01.12, 全文, 全図 & CN 107735750 A, 全文, 全図	1-8
A	JP 07-072018 A (オリンパス光学工業株式会社) 1995.03.17, 全文, 全図 (ファミリーなし)	1-8

Petitioner Therabody Ex-1004, 1460

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/526,980	04/30/2024 10:45:15 PM Z ET	DF-P01-US08

Title of Invention

COMMUNICATION DEVICES, METHODS, AND SYSTEMS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2825	FILED BY	MEGAN PRESNAIL
PATENT CENTER #	65326339	AUTHORIZED BY	Matthew Leaper
CUSTOMER #	158475	FILING DATE	12/01/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Matthew Robert Leaper

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 8572	E20244TM48345113	MEGAN PRESNAIL

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	544.00	1	544.00
2462	PETITIONS REQUIRING THE PETITION FEE SET FORTH IN 37 CFR 1.17(F) (GROUP I)	168.00	1	168.00
2464	PETITIONS REQUIRING THE PETITION FEE SET FORTH IN 37 CFR 1.17(H) (GROUP III)	56.00	1	56.00
			TOTAL AMOUNT:	$768.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT
Customer No.: 158475
Attorney Docket No.: DF-P01-US08

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	)	Art Unit: 2884
MATTHEW LEAPER	)	
	)	Examiner: GAWORECKI, Mark
Application No.: 18/526,980	)	
Filed: December 1, 2023	)	Confirmation No.: 2825
For: COMMUNICATION DEVICES, METHODS, AND SYSTEMS	)	**VIA EFS WEB**

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

PETITION FOR EXPEDITED CONSIDERATION UNDER 37 C.F.R. § 1.182

Applicant hereby requests expedited consideration under 37 C.F.R. § 1.182 of a Petition for Withdrawal from Issue Under 37 CFR § 1.313 submitted herewith.

This Application was originally filed on a Track One basis. The claims are currently allowed. Applicant paid the issue fee on February 26, 2024. The Office has not sent an issue notification letter indicating a patent number.

Applicant hereby requests expediated consideration of the Petition for Withdrawal under 37 CFR § 1.313(c)(2) submitted herewith along with a request for continued examination (or "RCE"). The RCE is necessitated by the issue fee payment to provide

Petitioner Therabody Ex-1004, 1463

Applicant with an opportunity to amend the specification and claims prior to issuance so that the amendments may be incorporated into the resulting patent upon publication. Applicant also takes this opportunity to submit an additional information disclosure statement (or "IDS") for consideration by the Examiner prior to issuance.

Applicant respectfully submits that now is the proper time to make the amendments, i.e., prior to issuance, to avoid having to file a certificate of correction. The Office has not sent an issue notification letter for this Application, providing the Applicant and the Office with a limited window of time to enter the amendments. Withdrawal of this Application on an expedited basis is therefore required to ensure that the Applicant's amendments and IDS may be considered without delaying prosecution.

Applicant understands that the Track One status of this Application may be lost upon filing the RCE, further necessitating this request.

This request for expedited consideration under 37 C.F.R. § 1.182 is supported by the RCE and IDS filed herewith. Also submitted is the petition fee under 37 CFR § 1.17(f) for making this request along with the fees set forth in 37 CFR § 1.17(e)(1) and (h) for filing the Petition for Withdrawal, the RCE, and the IDS submitted herewith.

If there is any fee due in connection with the filing of this application that is not otherwise provided with this filing, please charge the fee to Deposit Account No. **603446**. In addition, the Commissioner is hereby authorized to, now and throughout prosecution of this application, charge any additional required fees, including any fees due under 37 CFR § 1.16 OR § 1.17, charge any underpayments, or credit any overpayment to Deposit Account No. **603446**.

Petitioner Therabody Ex-1004, 1464

Please address all correspondence with respect to this application to: **DATAFEEL Inc. Customer Number 158475**.

Respectfully submitted,

MATTHEW LEAPER
REGISTERED PATENT ATTORNEY
CEO, DATAFEEL INC.

Dated: 30APR2024

By: **/MATTHEW LEAPER/**
Matthew R. Leaper
Reg. No. 73, 966
(626) 532-7371

Petitioner Therabody Ex-1004, 1465

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/526,980	**04/30/2024 10:45:15 PM Z ET**	**DF-P01-US08**

Title of Invention

COMMUNICATION DEVICES, METHODS, AND SYSTEMS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2825	FILED BY	MEGAN PRESNAIL
PATENT CENTER #	65326339	FILING DATE	12/01/2023
CUSTOMER #	158475	FIRST NAMED INVENTOR	Matthew Robert Leaper
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Matthew Leaper

Documents

TOTAL DOCUMENTS: 11

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DF_P01_US08_IDS02_final.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1253 KB
1_KR101767485B1 ORIGINAL DOCUMENT WITH TRANSLATED ABSTRACT.pdf	12	Foreign Reference	651 KB
2_KR20120018245A ORIGINAL DOCUMENT WITH TRANSLATED ABSTRACT.pdf	16	Foreign Reference	968 KB
4_WO2018143418A1 ORIGINAL DOCUMENT	26	Foreign Reference	957 KB

WITH TRANSLATED ABSTRACT.pdf			
3_WO2016019250A1.pdf	185	Foreign Reference	9791 KB
1_NPL SINGHAL ET AL.pdf	6	Non Patent Literature	3684 KB
DF_P01_US08_Preliminary_Amendment_FINAL.pdf	9	Preliminary Amendment	73 KB
DF_P01-US08_PETITION_FOR_EXPEDITED_FINAL2.pdf	3	Petition for review by the Office of Petitions	37 KB
DF_P01-US08_PETITION_WITHDRAWAL_ISSUANCE_FINAL2.pdf	2	Petition to Withdraw from Issue	32 KB
DF-P01-US08_IDS02_TL_FINAL2.pdf	2	Transmittal Letter	34 KB
DF-P01-US08-RCE.pdf	3	Request for Continued Examination (RCE)	1628 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DF_P01_US08_IDS02_final.pdf	8C343C20CC0D6D768A1C1C54263416DA1DA20A87A9C3E501523D5842CE7B93154EC299EED4BAFCCE49560BE943AE9B1389375F982940233ECD1D6DAB8E21CA62
1_KR101767485B1 ORIGINAL DOCUMENT WITH TRANSLATED ABSTRACT.pdf	9BF917F560943E42FC2BD85B7E488F77ED1500CA709672F1CC075BD898CDA82FD3DEF6EE806EA4E051F5AE576E6BCE19CC29F8E34BAAC31AB08F9DB73A7685BA
2_KR20120018245A ORIGINAL	825818005E9879F9D1DC3F5D858B9A49BDA8CE80D19FF2D5E

DOCUMENT WITH TRANSLATED ABSTRACT.pdf	33755B40AD5EE311D2E830CA2F548A2435A54ABF924266B07CCE3C4DD5193A9357B8EFFB8016E59
4_WO2018143418A1 ORIGINAL DOCUMENT WITH TRANSLATED ABSTRACT.pdf	B927DFAA5CDCFBA6BB149003E6700B147B516BBFBC15D146ED86A74695B5593FE94929C5E0CCD259E99D5A554D67FC7FEA96D21A4B7B377D548E788992C552B7
3_WO2016019250A1.pdf	A6DE637E3A055810600083C7806A055C83C271A8FDF8A75AB1F811302E98B47CF29ADE13EA380E575B08DD0B2C38DBDBE8C85B10B64CF7F200F5E4E1080DE563
1_NPL SINGHAL ET AL.pdf	70FC206CC18FA2458B64489BC72A3FE59A717DD4F9DC3A00A2135101DCA53F3B22E209481AA931958BDD126E76468C25A42F0B0EA0272C1BBAC537DCC3DF5405
DF_P01_US08_Preliminary_Amendment_FINAL.pdf	92B295B64C02AD810DB5F07C1E6D6C911E40915AF444E3516B4134182396AA890B2EC732FE5D43612FADB94B6A418FDD9CA11A3965A2FE13056F6FCB313A6CFB
DF_P01-US08_PETITION_FOR_EXPEDITED_FINAL2.pdf	0F6FC92DCE2CA7A8740BCC5B9AFC1256B8E3291EC55DAFEE4DA84C51C1DDAE6DDE93DA55CBD9164417001F078F04C1321E06AD5C6F9401E0E775041D7AC16EBF
DF_P01-US08_PETITION_WITHDRAWAL_ISSUANCE_FINAL2.pdf	880612400802F59E8348A0B35DDAB1627B5E11D4CE01989D72E08ABABF4832EC848DCEBA0496775DB846BEFAC8EF62AD3D05976A9A6303FAC862E7A7C2BB9DE8
DF-P01-US08_IDS02_TL_FINAL2.pdf	275B40FEF7A3C7293E8F85DAA4B52D980F8EBEA5AF889E7F683949676E12D068B498AA74D802FB9B4360675672001CAC928D20A012F27AEC001076E2B39D943C
DF-P01-US08-RCE.pdf	588F5ECE284FCA6A8F692631CCFE19BE1B1C7BF4CBCB6776E1AE57C04929D5CECF39B40D46EE6B44967E2B4F970AB1749B6925AC72012DCF20A422AD6BCADBAC

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d)

and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	18526980
	Filing Date	2023-12-01
	First Named Inventor	Matthew Robert Leaper
	Art Unit	2884
	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6413230	B1	2002-07-02	Haupt et al.	Entire Document
	2	8979775	B2	2015-03-17	Schafer et al.	Entire Document
	3	9703381	B2	2017-07-11	Gallo et al.	Entire Document
	4	10437340	B1	2019-10-08	Sullivan	Entire Document
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20190278374	A1	2019-09-12	Sato et al.	Entire Document
	2	20030153961	A1	2003-08-14	Babaev, Eilaz	Entire Document

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Art Unit	2884
	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

	3	20080312647	A1	2008-12-18	Knopp et al.	Entire Document
	4	20090156958	A1	2009-06-18	MEHTA et al.	Entire Document
	5	20100137752	A1	2010-06-03	Heine et al.	Entire Document
	6	20100204694	A1	2010-08-12	MEHTA et al.	Entire Document
	7	20150182762	A1	2015-07-02	Schafer et al.	Entire Document
	8	20150217142	A1	2015-08-06	Schafer	Entire Document
	9	20150220199	A1	2015-08-06	Wang et al.	Entire Document
	10	20150283277	A1	2015-10-08	Schafer et al.	Entire Document
	11	20170348049	A1	2017-12-07	Vrba et al.	Entire Document
	12	20190278374	A1	2019-09-12	SATO et al.	Entire Document

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18526980
	Filing Date	2023-12-01
	First Named Inventor	Matthew Robert Leaper
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	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	101767485	KR	B1	2017-08-11	Song et al.	Entire Document	☐
	2	20120018245	KR	A	2012-03-02	Jo et al.	Entire Document	☐
	3	2016019250	WO	A1	2016-02-04	Toth et al.	Entire Document	☐
	4	2018143418	WO	A1	2018-08-09	Sato et al.	Entire Document	☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	SINGHAL, ANSHUL et al., Perceptual Interactions in thermo-tactile displays, June 2017, 5 pages, 2017 Institute of Electrical and Electronics Engineers (IEEE) World Haptics Conference, Munich, Germany, 6-9 June, 2017.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18526980
	Filing Date	2023-12-01
	First Named Inventor	Matthew Robert Leaper
	Art Unit	2884
	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/MATTHEW LEAPER/	Date (YYYY-MM-DD)	2024-04-30
Name/Print	Matthew Leaper	Registration Number	73,966

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT
Customer No.: 158475
Attorney Docket No.: DF-P01-US08

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	)	Art Unit: 2884
MATTHEW LEAPER	)	
	)	Examiner: GAWORECKI, Mark
Application No.: 18/526,980	)	
Filed: December 1, 2023	)	Confirmation No.: 2825
For: COMMUNICATION DEVICES, METHODS, AND SYSTEMS	)	**VIA EFS WEB**

Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

PETITION FOR WITHDRAWAL FROM ISSUE AFTER ISSUE FEE PAYMENT

UNDER 37 CFR 1.313

Applicant hereby requests withdrawal from issue under 37 CFR § 1.313 for further action by Applicant following payment of the issue fee on February 26, 2024. Applicant respectfully requests withdrawal from issue after payment of the issue fee under § 1.313 (c)(2) for consideration of a request for continued examination (or "RCE") submitted herewith under with 37 CFR § 1.114 along with the fees set forth in 37 CFR § 1.17 (e)(1) and (h) for filing a petition to withdraw this application from issue and the RCE.

Petitioner Therabody Ex-1004, 1475

If there is any fee due in connection with the filing of this application that is not otherwise provided with this filing, please charge the fee to Deposit Account No. **603446**. In addition, the Commissioner is hereby authorized to, now and throughout prosecution of this application, charge any additional required fees, including any fees due under 37 CFR § 1.16 OR § 1.17, charge any underpayments, or credit any overpayment to Deposit Account No. **603446**.

Please address all correspondence with respect to this application to: **DATAFEEL Inc. Customer Number 158475**.

Respectfully submitted,

MATTHEW LEAPER
REGISTERED PATENT ATTORNEY
CEO, DATAFEEL INC.

Dated: 30APR2024

By: **/MATTHEW LEAPER/**
Matthew R. Leaper
Reg. No. 73, 966
(626) 532-7371

Petitioner Therabody Ex-1004, 1476

AMENDMENTS TO THE SPECIFICATION

Please replace the first full paragraph on page 1 of the specification of this application, following the section heading entitled "CROSS-REFERENCE TO RELATED APPLICATIONS," with the following amended paragraph:

[0001] This application is a § 1.53(b) continuation of ~~pending~~ prior U.S. Patent Application No. 18/388,489, filed November 9, 2023, now U.S. Patent No. 11,931,174, which is a continuation of U.S. Patent Application No. 18/143,142, filed May 4, 2023, now U.S. Patent No. 11,864,914, which is a continuation of U.S. Patent Application 18/092,398, filed January 2, 2023, now U.S. Patent No. 11,684,313, which is a continuation of U.S. Patent Application No. 17/213,117, filed March 25, 2021, now U.S. Patent No. 11,589,816, which is a continuation of U.S. Patent Application No. 16/757,482, filed April 20, 2020, now U.S. Patent No. 10,959,674, which is a § 371 National Stage Entry of International Patent Application No. PCT/US18/56814, filed October 22, 2018, claiming the benefit of priority of U.S. Provisional Patent Application No. 62/676,949, filed May 26, 2018, and U.S. Provisional Patent Application No. 62/575,951, filed October 23, 2017, the entireties of which are incorporated by reference into the enclosed application.

Petitioner Therabody Ex-1004, 1477

PATENT
Customer No.: 158475
Attorney Docket No.: DF-P01-US08

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

MATTHEW LEAPER

Application No.: 18/526,980

Filed: December 1, 2023

For: COMMUNICATION DEVICES, METHODS, AND SYSTEMS

Art Unit: 2884

Examiner: GAWORECKI, Mark

Confirmation No.: 2825

VIA EFS WEB

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

PRELIMINARY AMENDMENT

Prior to examination, please amend this application as follows:

Amendments to the Specification begin at page 2.

Amendments to the Claims begin at page 3.

Remarks follow the amendments.

Petitioner Therabody Ex-1004, 1478

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A treatment device, comprising:

a body provided with a processing unit and a power source; and

a plurality of energy generator elements being independently operable to convert electricity from the power source into a plurality of different energy types transmittable towards an area of skin of a user, the plurality of energy generator elements being arranged coaxially about an axis,

wherein the body includes a grip arranged to be grasped by a hand of the user applying a gripping force to maintain the plurality of energy generator elements on or adjacent the area of skin,

wherein the plurality of energy generator elements includes a first energy generator element and a second energy generator element, and wherein the first energy generator element is an impact generator element having a tissue contact surface that is linearly actuatable along the axis to contact and cause corresponding physical movement of the area of skin.

2. (Cancelled)

3. (Currently Amended) The treatment device of claim 1~~2~~, wherein the impact generator element further includes a drive mechanism~~,~~ and a piston, ~~and tissue contacting member,~~ wherein the drive mechanism is operably coupled to a controller that directs electricity to the drive mechanism to move the piston and the tissue contact surface along the axis.

4. (Currently Amended) The treatment device of claim 1~~2~~, wherein the second energy generator element is substantially ring shaped and arranged coaxially about the first energy generator element.

5. (Currently Amended) The treatment device of claim 1~~2~~, wherein the second energy generator element includes a reflecting groove circumferentially arranged about the axis, the reflecting groove defining a concave shape arranged to reflect ~~a second~~ energy ~~type~~ generated from the second energy generator element towards the area of skin.

Petitioner Therabody Ex-1004, 1479

6. (Currently Amended) The treatment device of claim 1, wherein the ~~plurality of~~second energy generator element~~s~~ includes~~:~~

~~———~~ a heat generator element~~;~~

~~——— an impact generator element; and/or~~

~~——— a pressure generator element~~.

7. (Currently Amended) The treatment device of claim 1, wherein a first one of the plurality of different energy types ~~includes:~~is an impact force applied against a surface of the area of skin and a second one of the plurality of different energy types is

a heat flux directed toward the area of skin~~;~~

~~an impact force applied to the area of skin; and/or~~

~~——— a pressure force applied to the area of skin~~.

8. (Currently Amended) The treatment device of claim 1, wherein at least one of the plurality of energy generator elements is contained at least partially within a housing that is removably securable to the body.

9. (Currently Amended) A treatment device, comprising:

a body provided with a sensor, a power source, and a processing unit configured to receive input data and generate a control signal based on the input data, the body further including a skin contacting surface maintainable against skin of a user by a force applied by a hand of the~~a~~ user when gripping the body; and

a first energy generator element and a second energy generator element coupled to the body, the first and second energy generator elements being independently operable to convert electricity from the power source into a first energy type and a second energy type, respectively, and direct the first and second energy types toward an area of skin, the first energy generator element including an impact generator element having a tissue contact surface that is linearly actuatable along an axis to ~~output an impact force against~~ contact and cause corresponding physical movement of the area of skin,

wherein the sensor is configured to detect additional input data based on a vital sign of the user and transmit the input data for display.

Petitioner Therabody Ex-1004, 1480

10. (Original) The treatment device of claim 9, wherein the additional input data corresponds to a heart rate of the user.

11. (Original) The treatment device of claim 9, further comprising a controller configured to modify intensity of the first energy type and the second energy type.

12. (Original) The treatment device of claim 9, wherein a portion of the body configured to be gripped by the hand of the user is configured to emulate a grip of a gun.

13. (Currently Amended) The treatment device of claim 9, wherein the impact generator element further includes a drive mechanism~~,~~ and a piston~~, and a tissue contacting member~~, wherein the drive mechanism is operably coupled to a controller to direct electricity to the drive mechanism and move the piston and the tissue contact surface along the axis.

14. (Currently Amended) The treatment device of claim 13~~9~~, wherein the second energy generator element is a heat generator element configured to output the~~a~~ second energy type including a heat flux toward the area of skin.

15. (Currently Amended) The treatment device of claim 14, wherein the heat generator element is arranged coaxially about the axis and at least a portion of the heat generator element extends about at least portion of the piston.

16. (Original) The treatment device of claim 14, further comprising a third energy generator element independently operable of the first and second energy generator elements to output a third energy type toward the area of skin.

17. (Original) The treatment device of claim 16, further comprising a controller configured to modify an intensity of the first, second, and third energy types.

18. (Currently Amended) A treatment device, comprising:

a body provided with a power source and a processing unit configured to receive input data and generate a control signal based on the input data, the body including a skin contacting

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surface maintainable against skin of a user by a force applied by a hand of the user when gripping the body; and

a first energy generator element and a second energy generator element coupled to the body, the first and second energy generator elements being independently operable to convert electricity from the power source into a first energy type and a second energy type, respectively, and direct the first and second energy types toward an area of skin, the first energy generator element including an impact generator element having a tissue contact surface that is linearly actuatable along an axis to contact ~~output the first energy type including an impact force against~~ and cause corresponding physical movement of the area of skin;

wherein the processing unit is operable to output an optical signal on a display that is observable by eyes of the user, the output corresponding to the control signal.

19. (Original) The treatment device of claim 18, wherein a portion of the body configured to be gripped by the hand of the user is configured to emulate a grip of a gun.

20. (Currently Amended) The treatment device of claim 18, further comprising a sensor to detect additional input data based on a vital sign of the user, the additional input data corresponding to a heart rate of the user.

21. (Currently Amended) A treatment method, comprising:

maintaining a skin contacting surface of a body against an area of skin of a user by gripping the body with a hand and applying a gripping force with the hand, the body comprising a plurality of energy generator elements that are independently operable to output a plurality of different energy types toward the area of skin; and

causing, with a processing unit and a power source, while maintaining the skin contacting surface against the skin with the gripping force, the plurality of energy generator elements to convert electricity from the power source into the plurality of different energy types by independently or simultaneously causing:

a first energy generator element having a tissue contact surface that is linearly actuatable along an axis to output a first energy type as the tissue contact surface ~~to~~ contacts and causes corresponding physical movement of the area of skin; and

a second energy generator element that is arranged coaxially about the first energy generator element along the axis to output a second energy type to the area of skin.

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22. (Original) The method of claim 21, comprising independently or simultaneously causing, with the processing unit:

the first energy type to stimulate touch receptors associated with the area of skin; and

the second energy type to stimulate thermal receptors associated with the area of skin.

23. (Currently Amended) The method of claim 21, wherein ~~the first energy type comprises an impact force and~~ causing the first energy generator element to output the first energy type comprises:

causing, with the processing unit, a drive mechanism to move a piston linearly along the axis so that ~~a~~the tissue contact~~ing member~~ surface attached to the piston ~~communicates the first energy type by applying~~ applies an impact force against the area of skin.

24. (Cancelled)

25. (Currently Amended) The method of claim 21, wherein causing the second energy generator element to output the second energy type comprises:

directing the second energy type ~~along the axis with an annular surface that is arranged~~ coaxially about the first energy generator element toward the area of skin.

26. (Currently Amended) The method of claim 21, wherein the second energy type comprises a heat flux and causing the second energy generator element to output the second energy type comprises:

causing, with ~~the~~a controller, an electrical resistor to output the heat flux; and

directing the heat flux toward the area of skin.

27. (Currently Amended) The method of claim 21, comprising:

receiving, with the processing unit, input data from a data source;

generating, with the processing unit, a control signal based on the input data; and

causing, with the processing unit, the plurality of energy generator elements to output the plurality of different energy types responsive to the control signal.

28. (Currently Amended) The method of claim 27, comprising:

detecting, with a sensor, additional input data based on a vital sign of the user; and

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transmitting, with the sensor, the additional input data to the processing unit.

29. (Original) The method of claim 28, comprising:

modifying, with the processing unit, an intensity of the first energy type or the second energy type responsive to the input data or the additional input data.

30. (Currently Amended) The method of claim 21, comprising independently or simultaneously causing a third generator element ~~that is arranged coaxially about the first energy generator element and the second generator element along the axis~~ to output a third energy type to the area of skin.

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REMARKS

By this Preliminary Amendment, Applicant has amended the first full paragraph of the specification and claims 1, 3-9, 13-15, 18, 20-21, 23, 25-28, and 30. Claims 2 and 24 are cancelled. No claims are added. A total of thirty (30) claims are now pending.

The first full paragraph of the specification is amended to clarify that prior U.S. Patent Application No. 18/388,489, filed November 9, 2023, is now U.S. Patent No. 11,931,174. The claim amendments are supported by the originally filed specification and claims.

Applicant does not believe any fees are required to file this Preliminary Amendment. If there is any fee due in connection with the filing of this application that is not otherwise provided with this filing, please charge the fee to Deposit Account No. **603446**.

Please address all correspondence with respect to this application to: **DATAFEEL Inc.**

Customer Number 158475.

Respectfully submitted,

MATTHEW LEAPER
REGISTERED PATENT ATTORNEY
CEO, DATAFEEL INC.

Dated: **30APR2024**

By: **/MATTHEW R. LEAPER/**
Matthew R. Leaper
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(626) 532-7371

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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/526,980	Filing Date 12/01/2023	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1)	(Column 2)			
FOR	NUMBER FILED	NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $ 192 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	04/30/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 28	Minus	** 30	= 0		x $40 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x $ 192 =	192
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	192

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/BRENDA GRAY/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

158475 7590 05/07/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

EXAMINER	
GAWORECKI, MARK R	

ART UNIT	PAPER NUMBER
2884	

NOTIFICATION DATE	DELIVERY MODE
05/07/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@DATAFEEL.COM
eofficeaction@appcoll.com

Petitioner Therabody Ex-1004, 1487

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In re Application of	:	
Matthew Robert Leaper.	:	
Application No. 18/526,980	:	DECISION ON PETITION
Filed: December 1, 2023	:	UNDER 37 CFR 1.313(c)(2)
Attorney Docket No. DF-P01-US08	:	

This is a decision on the petition under 37 CFR 1.182, filed April 30, 2024, to expedite the handling of the concurrently filed petition under 37 CFR 1.313(c)(2), to withdraw the above-identified application from issue after payment of the issue fee.

The petition under 37 CFR 1.182 is **GRANTED** to the extent that the petition fee of $168.00 has been received.

The petition under 37 CFR 1.313(c) is **GRANTED**.

The above-identified application is hereby withdrawn from issue for consideration of a submission under 37 CFR 1.114 (Request for Continued Examination).[1] See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid on February 26, 2024, cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.[2]

Telephone inquiries should be directed to Andrea Smith at (571) 272-3226.

The application is being forwarded to Technology Center Art Unit 2884 for processing of the Request for Continued Examination under 37 CFR 1.114 and for consideration of the amendment and Information Disclosure Statement filed April 30, 2024.

/JoAnne L. Burke/
JoAnne L. Burke
Lead Paralegal Specialist
Office of Petitions

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[1] As authorized, the Information Disclosure Statement fee of $104.00 has been charged to the listed deposit account.

[2] *The request to apply the issue fee to the new Notice may be satisfied by completing and returning the new Part B – Fee(s) Transmittal Form (along with any balance due at the time of submission). Petitioner is advised that the Issue Fee Transmittal Form **must** be completed and timely submitted to avoid abandonment of the application.*

United States Patent and Trademark Office

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Document Code:WFEE

User :Brenda Gray

Sale Accounting Date:05/10/2024

Sale Item Reference Number	Effective Date
18526980	04/30/2024

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202450B05448608	2201	INDEPENDENT CLAIMS IN EXCESS OF 3	$192.00	Deposit Account

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/526,980	Leaper, Matthew Robert
	Examiner	**Art Unit**
	MARK R GAWORECKI	2884

CPC						
Symbol					**Type**	**Version**
A61H	/	23	/	006	F	2013-01-01
A61H	/	23	/	02	I	2013-01-01
A61B	/	5	/	486	I	2013-01-01
A61N	/	1	/	0456	I	2013-01-01
A61N	/	1	/	36014	I	2013-01-01
A61H	/	2201	/	0207	A	2013-01-01
A61H	/	2205	/	065	A	2013-01-01
A61H	/	2201	/	0153	A	2013-01-01
A61H	/	2201	/	1664	A	2013-01-01
A61H	/	2230	/	065	A	2013-01-01
A61H	/	2201	/	123	A	2013-01-01
A61B	/	5	/	7435	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	28	
/MARK R GAWORECKI/ Primary Examiner, Art Unit 2884	13 May 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7B

U.S. Patent and Trademark Office — Part of Paper No.: 20240513

Petitioner Therabody Ex-1004, 1490

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/526,980	Leaper, Matthew Robert
	Examiner	**Art Unit**
	MARK R GAWORECKI	2884

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A61B	/	5	/	11
A61B	/	5	/	00
A61N	/	1	/	04
A61N	/	1	/	36
G06F	/	3	/	01
A61H	/	23	/	02
A61H	/	23	/	00

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	28	
/MARK R GAWORECKI/ Primary Examiner, Art Unit 2884	13 May 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7B

U.S. Patent and Trademark Office — Part of Paper No.: 20240513

Petitioner Therabody Ex-1004, 1491

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/526,980	Leaper, Matthew Robert
	Examiner	**Art Unit**
	MARK R GAWORECKI	2884

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	18	19	26	28								
-	2	10	11	19	20	27	29								
2	3	11	12	20	21	28	30								
3	4	12	13	21	22										
4	5	13	14	22	23										
5	6	14	15	-	24										
6	7	15	16	23	25										
7	8	16	17	24	26										
8	9	17	18	25	27										

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	28	
/MARK R GAWORECKI/ Primary Examiner, Art Unit 2884	13 May 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7B

Petitioner Therabody Ex-1004, 1492

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/526,980	Leaper, Matthew Robert
	Examiner	Art Unit
	MARK R GAWORECKI	2884

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61B 5/0022, 1112, 1114, 318, 4029, 4824, 4836, 4848, 486, 6803, 6807, 681, 6824, 6833, 7435, 2503/12, 2560/0214, 0412, 0468, 2562/046, 164	02/05/2024	MG
A61N 1/0456, 0484, 0492, 36014, 3603	02/05/2024	MG
G06F 3/016	02/05/2024	MG
A61H 23/006, 02, 2201/0153, 0207, 123, 1664, 2205/065, 2230/065	02/05/2024	MG
Above updated	02/16/2024	MG
Above updated	05/13/2024	MG

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/MARK R GAWORECKI/ Primary Examiner, Art Unit 2884	

Petitioner Therabody Ex-1004, 1493

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/526,980	Leaper, Matthew Robert
	Examiner	Art Unit
	MARK R GAWORECKI	2884

Search Notes		
Search Notes	**Date**	**Examiner**
A61B 5/0022, 1112, 1114, 318, 4029, 4824, 4836, 4848, 486, 6803, 6807, 681, 6824, 6833, 7435, 2503/12, 2560/0214, 0412, 0468, 2562 /046, 164	02/05/2024	MG
A61N 1/0456, 0484, 0492, 36014, 3603	02/05/2024	MG
G06F 3/016	02/05/2024	MG
A61H 23/006, 02, 2201/0153, 0207, 123, 1664, 2205/065, 2230/065	02/05/2024	MG
Classification text narrowed: communicat$3 near3 nerv$1, communicat$3 with nerve$1, output$4 with skin with energ$3, output $4 with skin with energy, output$5 with skin, tissue with interface, energ$3 with (skin nerve bone muscle)	02/05/2024	MG
Inventor/assignee search (SEARCH)	02/05/2024	MG
Reviewed search for parent applications	02/05/2024	MG
SEARCH history attachment	02/05/2024	MG
Updated SEARCH history attached	02/16/2024	MG
Updated SEARCH history attached	05/13/2024	MG

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A61B	5/0022, 1112, 1114, 318, 4029, 4824, 4836, 4848, 486, 6803, 6807, 681, 6824, 6833, 7435, 2503/12, 2560/0214, 0412, 0468, 2562/046, 164	02/05/2024	MG
A61N	1/0456, 0484, 0492, 36014, 3603	02/05/2024	MG
G06F	3/016	02/05/2024	MG
A61H	A61H 23/006, 02, 2201/0153, 0207, 123, 1664, 2205/065, 2230/065	02/05/2024	MG
PGPUB-Text	See SEARCH history attachment	02/05/2024	MG
Above	updated	02/16/2024	MG
Above	updated	05/13/2024	MG

/MARK R GAWORECKI/ Primary Examiner, Art Unit 2884	

Petitioner Therabody Ex-1004, 1494

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	7902	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L2	5034	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L3	7999	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L4	10555	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L5	17444	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L6	9490	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:07 PM
L7	4154	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:08 PM
L8	3130	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:08 PM
L9	8607	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:08 PM
L10	5168	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:08 PM
L11	67262	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:08 PM
L12	1	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:09 PM
L13	0	(datafeel).aanm.	(US-PGPUB; USPAT;	OR	OFF	OFF	2020/11/09

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:09 PM
L14	2409	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:42 PM
L15	800	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:46 PM
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Petitioner Therabody Ex-1004, 1496

		6357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L17	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 02:50 PM
L18	1225	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 03:16 PM
L19	1406	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:16 PM
L20	147	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:20 PM
L21	47590	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:21 PM
L22	8	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:21 PM
L23	11	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:21 PM
L24	31	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:21 PM
L25	41	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:21 PM
L26	331	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 03:46 PM
L27	1761	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 03:49 PM
L28	1761	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2020/11/09 03:49 PM

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			IBM_TDB)				
L29	57	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:49 PM
L30	57	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:49 PM
L31	2	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:50 PM
L32	320	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:57 PM
L33	7	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 03:58 PM
L34	7902	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L35	5034	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L36	7999	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L37	10555	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L38	17444	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L39	9490	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L40	4154	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L41	3130	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM

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L42	8607	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L43	5168	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L44	67262	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L45	0	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L46	1	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L47	2409	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L48	800	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L49	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM

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		077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L50	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L51	1225	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L52	1406	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L53	147	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L54	47590	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L55	8	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L56	11	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L57	31	L19 and L21	(US-PGPUB; USPAT;	OR	ON	ON	2020/11/09

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				04:11 PM
L58	41	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L59	331	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L60	1761	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2020/11/09 04:11 PM
L61	1761	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L62	57	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L63	57	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L64	2	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L65	320	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L66	7	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2020/11/09 04:11 PM
L67	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530"	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:55 PM

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		"4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L68	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 09:31 AM
L69	9605	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L70	6758	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L71	10231	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L72	12908	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L73	23156	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L74	12193	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L75	4958	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L76	3792	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L77	10890	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L78	6619	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2022/05/26 10:24 AM

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			JPO; DERWENT; IBM_TDB)				
L79	85634	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L80	8	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L81	5	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L82	3100	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L83	1061	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L84	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/05/26 10:24 AM

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		"|"20190064924"|"2019 0076643"|"2327222"|"3 108268"|"3594787"|"38 48608"|"4167189"|"451 0939"|"4926879"|"5449 378"|"5719561"|"60384 85"|"6712613"|"701317 9"|"7110820"|"7324094" |"7687678"|"7696860"|" 8170656"|"8175718"|"8 308558"|"8364257"|"83 69944"|"8633907"|"869 6357"|"8766786"|"8965 500"|"9042971"|"90469 19"|"9195350"|"928289 3"|"9364667"|"9417694" |"9454915"|"9607492"|" 9652946"|"9884179").PN.					
L85	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L86	1540	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L87	1768	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L88	203	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L89	60118	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L90	20	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L91	25	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L92	47	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L93	65	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM

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L94	438	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L95	2250	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L96	2257	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L97	77	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L98	77	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L99	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L100	418	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L101	16	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L102	9605	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L103	6758	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L104	10231	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L105	12908	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L106	23156	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L107	12193	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/05/26

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				10:24 AM
L108	4958	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L109	3792	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L110	10890	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L111	6619	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L112	85634	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L113	5	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L114	8	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L115	3100	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L116	1061	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L117	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/05/26 10:24 AM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L118	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L119	1540	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L120	1768	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L121	203	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L122	60118	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2022/05/26 10:24 AM

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			JPO; DERWENT; IBM_TDB)				
L123	20	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L124	25	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L125	47	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L126	65	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L127	438	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L128	2250	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/05/26 10:24 AM
L129	2257	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L130	77	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L131	77	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L132	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L133	418	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L134	16	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L135	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/05/26 10:24 AM

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		"4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L136	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/26 10:24 AM
L137	10033	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L138	7233	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L139	11032	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L140	13552	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L141	24718	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L142	13029	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L143	5161	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2022/09/27 01:11 PM

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			IBM_TDB)				
L144	3984	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L145	11546	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L146	7089	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L147	91014	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L148	10	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L149	8	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L150	3263	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L151	1119	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L152	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L153	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L154	1636	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L155	1874	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L156	218	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L157	62822	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L158	21	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM

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L159	26	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L160	48	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L161	67	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L162	464	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L163	2367	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L164	2374	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L165	80	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L166	80	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L167	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L168	437	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L169	16	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L170	10033	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L171	7233	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L172	11032	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2022/09/27

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				01:11 PM
L173	13552	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L174	24718	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L175	13029	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L176	5161	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L177	3984	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L178	11546	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L179	7089	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L180	91014	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L181	8	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L182	10	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L183	3263	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L184	1119	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L185	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM

Petitioner Therabody Ex-1004, 1513

		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L186	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L187	1636	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2022/09/27 01:11 PM

Petitioner Therabody Ex-1004, 1514

			JPO; DERWENT; IBM_TDB)				
L188	1874	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L189	218	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L190	62822	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L191	21	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L192	26	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L193	48	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L194	67	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L195	464	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L196	2367	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L197	2374	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L198	80	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L199	80	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L200	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/09/27 01:11 PM

Petitioner Therabody Ex-1004, 1515

			IBM_TDB)				
L201	437	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L202	16	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L203	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM
L204	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L205	10033	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L206	7233	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L207	11032	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L208	13552	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2022/09/27 01:11 PM

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			IBM_TDB)				
L209	24718	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L210	13029	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L211	5161	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L212	3984	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L213	11546	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L214	7089	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L215	91014	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L216	10	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L217	8	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L218	3263	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L219	1119	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L220	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L221	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L222	1636	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L223	1874	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM

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L224	218	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L225	62822	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L226	21	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L227	26	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L228	48	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L229	67	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L230	464	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L231	2367	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L232	2374	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L233	80	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L234	80	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L235	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L236	437	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L237	16	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2022/09/27

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				01:11 PM
L238	10033	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L239	7233	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L240	11032	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L241	13552	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L242	24718	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L243	13029	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L244	5161	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L245	3984	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L246	11546	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L247	7089	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L248	91014	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L249	8	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L250	10	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2022/09/27 01:11 PM

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			JPO; DERWENT; IBM_TDB)				
L251	3263	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L252	1119	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L253	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L254	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L255	1636	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L256	1874	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L257	218	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L258	62822	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L259	21	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L260	26	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L261	48	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L262	67	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L263	464	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L264	2367	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/09/27 01:11 PM
L265	2374	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM

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L266	80	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L267	80	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L268	9	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L269	437	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L270	16	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L271	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/09/27 01:11 PM
L272	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 01:11 PM
L273	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM

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L274	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L275	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L276	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L277	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L278	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L279	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L280	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L281	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L282	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L283	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L284	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L285	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L286	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L287	1185	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2023/04/10

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L288	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM
L289	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2023/04/10

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L290	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L291	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L292	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L293	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L294	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L295	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L296	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L297	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L298	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L299	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L300	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L301	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L302	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2023/04/10 09:02 AM

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			JPO; DERWENT; IBM_TDB)				
L303	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L304	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L305	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L306	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L307	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L308	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L309	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L310	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L311	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L312	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L313	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L314	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L315	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2023/04/10 09:02 AM

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			IBM_TDB)				
L316	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L317	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L318	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L319	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L320	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L321	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L322	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L323	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L324	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L325	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L326	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L327	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L328	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L329	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L330	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM

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L331	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L332	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L333	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L334	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L335	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L336	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L337	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L338	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L339	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L340	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L341	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L342	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L343	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L344	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L345	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L346	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L347	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L348	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L349	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L350	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L351	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L352	14	(matthew with robert	(US-PGPUB; USPAT;	OR	OFF	OFF	2023/04/10

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		with leaper).in.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L353	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L354	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L355	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L356	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L357	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L358	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L359	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L360	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L361	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L362	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L363	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L364	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L365	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L366	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L367	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2023/04/10 09:02 AM

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			JPO; DERWENT; IBM_TDB)				
L368	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L369	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L370	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L371	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L372	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L373	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L374	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L375	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L376	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L377	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L378	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L379	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L380	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2023/04/10 09:02 AM

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			IBM_TDB)				
L381	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L382	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L383	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L384	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L385	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L386	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L387	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L388	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L389	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L390	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L391	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L392	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L393	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L394	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L395	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM

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L396	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L397	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L398	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L399	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L400	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L401	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L402	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L403	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L404	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L405	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L406	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L407	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914"	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		"5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L408	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L409	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L410	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L411	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L412	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L413	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L414	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L415	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L416	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L417	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2023/04/10

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L418	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L419	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L420	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L421	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L422	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L423	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L424	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L425	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L426	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L427	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L428	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L429	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L430	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L431	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L432	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2023/04/10 09:02 AM

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			JPO; DERWENT; IBM_TDB)				
L433	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L434	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L435	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L436	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L437	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L438	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L439	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L440	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L441	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L442	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L443	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L444	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L445	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2023/04/10 09:02 AM

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			IBM_TDB)				
L446	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L447	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L448	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L449	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L450	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L451	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L452	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L453	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L454	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L455	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L456	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L457	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L458	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L459	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L460	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM

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L461	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L462	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L463	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L464	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L465	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L466	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L467	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L468	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L469	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L470	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L471	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L472	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L473	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L474	18	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2023/04/10

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L475	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM
L476	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L477	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L478	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L479	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L480	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L481	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L482	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2023/04/10

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L483	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L484	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L485	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L486	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L487	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L488	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L489	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L490	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L491	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L492	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L493	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L494	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L495	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L496	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L497	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2023/04/10 09:02 AM

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			JPO; DERWENT; IBM_TDB)				
L498	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L499	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L500	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L501	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L502	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L503	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L504	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L505	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L506	92	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L507	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L508	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L509	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L510	10508	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2023/04/10 09:02 AM

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			IBM_TDB)				
L511	8060	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L512	12000	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L513	14407	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L514	27165	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L515	14094	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L516	5357	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L517	4181	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L518	12248	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L519	7624	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L520	98226	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L521	12	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L522	14	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L523	3438	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM

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L524	1185	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L525	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM

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L526	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L527	1756	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L528	2011	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L529	241	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L530	66331	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L531	26	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L532	31	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L533	58	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L534	78	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L535	492	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L536	2558	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/04/10 09:02 AM
L537	2565	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L538	92	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L539	92	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	ON	ON	2023/04/10

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		skin with energ$3)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:02 AM
L540	11	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L541	464	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L542	18	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L543	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2023/04/10 09:02 AM
L544	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/10 09:02 AM
L545	10870	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L546	8542	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L547	12714	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L548	14970	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L549	28579	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L550	14755	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L551	5505	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L552	4379	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L553	12793	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L554	8033	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L555	102795	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L556	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L557	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L558	3722	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L559	1314	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L560	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L561	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L562	1919	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L563	2203	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L564	266	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L565	70040	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L566	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L567	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L568	79	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L569	99	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L570	559	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L571	2767	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L572	2774	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L573	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L574	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L575	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/05 08:07 AM

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			IBM_TDB)				
L576	516	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L577	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L578	10870	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L579	8542	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L580	12714	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L581	14970	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L582	28579	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L583	14755	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L584	5505	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L585	4379	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L586	12793	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L587	8033	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L588	102795	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM

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L589	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L590	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L591	3722	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L592	1314	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L593	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"60384	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		85"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L594	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L595	1919	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L596	2203	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L597	266	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L598	70040	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L599	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L600	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L601	79	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L602	99	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L603	559	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L604	2767	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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		skin)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L605	2774	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L606	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L607	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L608	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L609	516	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L610	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L611	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM
L612	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR,	OR	ON	ON	2024/02/05 08:07 AM

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			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L613	10870	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L614	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L615	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L616	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L617	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L618	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L619	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L620	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L621	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L622	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L623	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L624	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L625	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L626	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L627	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L628	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L629	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L630	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L631	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L632	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L633	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L634	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L635	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L636	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L637	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L638	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L639	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L640	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L641	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L642	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L643	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L644	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L645	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L646	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L647	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L648	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L649	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L650	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L651	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L652	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L653	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L654	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L655	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L656	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L657	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L658	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L659	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L660	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L661	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L662	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L663	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L664	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L665	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L666	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L667	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L668	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L669	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L670	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L671	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L672	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L673	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L674	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L675	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L676	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L677	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L678	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L679	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		"4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L680	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L681	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L682	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L683	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L684	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L685	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L686	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L687	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L688	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L689	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L690	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L691	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L692	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L693	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L694	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L695	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L696	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L697	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L698	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L699	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L700	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L701	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L702	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L703	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L704	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L705	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L706	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L707	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L708	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L709	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L710	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L711	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L712	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L713	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L714	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L715	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L716	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L717	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L718	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L719	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L720	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L721	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L722	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L723	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L724	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L725	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L726	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L727	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L728	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L729	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"201001621109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L730	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L731	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L732	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L733	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L734	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L735	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L736	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L737	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L738	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L739	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L740	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L741	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L742	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L743	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L744	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L745	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L746	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L747	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		"4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L748	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L749	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L750	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L751	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L752	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L753	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L754	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L755	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L756	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L757	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L758	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L759	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L760	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L761	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L762	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L763	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L764	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L765	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L766	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L767	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L768	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L769	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L770	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L771	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L772	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L773	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L774	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L775	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L776	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L777	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L778	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L779	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L780	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L781	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L782	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L783	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L784	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L785	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L786	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L787	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L788	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L789	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L790	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L791	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L792	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L793	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L794	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L795	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L796	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L797	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L798	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L799	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/05 08:07 AM

Petitioner Therabody Ex-1004, 1579

			JPO; DERWENT; IBM_TDB)				
L800	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L801	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L802	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L803	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L804	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L805	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L806	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L807	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L808	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L809	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L810	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L811	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L812	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/05 08:07 AM

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			IBM_TDB)				
L813	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L814	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L815	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM
L816	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L817	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L818	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L819	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L820	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L821	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L822	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L823	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L824	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L825	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L826	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L827	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L828	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L829	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L830	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L831	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L832	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L833	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L834	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L835	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L836	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L837	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L838	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L839	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L840	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L841	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L842	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L843	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L844	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L845	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L846	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L847	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L848	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L849	24	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/05

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L850	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L851	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L852	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L853	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L854	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L855	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L856	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L857	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L858	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L859	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L860	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L861	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L862	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L863	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L864	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L865	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L866	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L867	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L868	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L869	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L870	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L871	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L872	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L873	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L874	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L875	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L876	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L877	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L878	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L879	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L880	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L881	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L882	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L883	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM
L884	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L885	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM

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L886	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L887	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L888	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L889	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L890	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L891	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L892	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L893	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L894	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L895	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L896	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L897	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L898	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L899	1316	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L900	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM
L901	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L902	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L903	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L904	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L905	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L906	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L907	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L908	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L909	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L910	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L911	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L912	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L913	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L914	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L915	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L916	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L917	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L918	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L919	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L920	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L921	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L922	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L923	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L924	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L925	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L926	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L927	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L928	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L929	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L930	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L931	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L932	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L933	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L934	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L935	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L936	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L937	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L938	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L939	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L940	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L941	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L942	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L943	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L944	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L945	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L946	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L947	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L948	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L949	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L950	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L951	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L952	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L953	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L954	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L955	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L956	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L957	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L958	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L959	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L960	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L961	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L962	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L963	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L964	21	(matthew with robert	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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		with leaper).in.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L965	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L966	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L967	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L968	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L969	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L970	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L971	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L972	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L973	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L974	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L975	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L976	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L977	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L978	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L979	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L980	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L981	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L982	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L983	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L984	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L985	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L986	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L987	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L988	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L989	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L990	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L991	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L992	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L993	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L994	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L995	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L996	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L997	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L998	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L999	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1000	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1001	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1002	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1003	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1004	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1005	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1006	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1007	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L1008	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1009	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1010	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1011	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1012	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1013	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1014	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1015	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1016	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1017	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1018	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1019	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		"5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L1020	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1021	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1022	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1023	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1024	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1025	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1026	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1027	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1028	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1029	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L1030	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1031	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1032	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1033	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1034	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1035	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1036	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1037	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1038	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1039	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1040	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1041	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1042	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1043	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1044	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/05 08:07 AM

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			JPO; DERWENT; IBM_TDB)				
L1045	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1046	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1047	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1048	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1049	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1050	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1051	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1052	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1053	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1054	10880	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1055	8556	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1056	12733	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1057	14979	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/05 08:07 AM

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			IBM_TDB)				
L1058	28621	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1059	14771	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1060	5509	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1061	4383	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1062	12806	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1063	8044	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1064	102909	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1065	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1066	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1067	3728	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1068	1316	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1069	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1070	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1071	1926	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1072	2210	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM

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L1073	267	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1074	70169	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1075	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1076	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1077	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1078	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1079	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1080	2771	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 08:07 AM
L1081	2778	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1082	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1083	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1084	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1085	517	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1086	24	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/05

Petitioner Therabody Ex-1004, 1609

		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:07 AM
L1087	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/05 08:07 AM
L1088	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:07 AM
L1089	1377	588 AND (grip$4 WITH hand)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 08:55 AM
L1090	7205	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:56 AM
L1091	26328	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:56 AM
L1093	24848	a61h2201/0207.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:56 AM
L1094	2784	a61h2201/123.cpc.	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/05

Petitioner Therabody Ex-1004, 1610

			USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				10:56 AM
L1095	4811	a61h2201/1664.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:56 AM
L1096	5234	a61h2205/065.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:56 AM
L1097	2210	a61h2230/065.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:57 AM
L1098	10318	a61h2201/0153.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 10:57 AM
L1099	189167	L1098 L1097 L1096 L1095 L1094 L1093 L1091 L1090 L588	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/05 11:01 AM
L1100	2149	1099 AND (tissue WITH interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:02 AM
L1101	421	1099 AND (communicat$3 near3 nerv$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:03 AM
L1102	1438	1099 AND (communicat$3 WITH nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:03 AM
L1103	138	1099 AND (output$4 WITH skin WITH energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:03 AM
L1104	138	1099 AND (output$4 WITH skin WITH energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:03 AM
L1105	3107	1099 AND (output$5 WITH skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:03 AM
L1106	2149	1099 AND (tissue	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/05

Petitioner Therabody Ex-1004, 1611

		WITH interface)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:04 AM
L1107	5289	1099 AND (energ$3 WITH (skin nerve bone muscle))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/05 11:04 AM
L1108	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1109	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1110	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1111	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1112	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1113	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1114	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1115	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1116	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1117	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1118	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1119	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1612

			JPO; DERWENT; IBM_TDB)				
L1120	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1121	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1122	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1123	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1613

		|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1124	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1125	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1126	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1127	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1128	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1129	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1130	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1131	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1132	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1133	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1134	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1614

			IBM_TDB)				
L1135	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1136	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1137	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1138	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1139	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1140	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1141	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1142	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1143	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1144	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1145	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1146	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1147	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1615

L1148	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1149	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1150	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1151	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1152	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1153	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1154	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1155	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1156	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"2010016210	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1616

		9"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1157	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1158	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1159	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1160	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1161	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1162	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1163	39	L15 and L21	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1164	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1165	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1166	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1167	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1168	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1169	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1170	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1171	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1172	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1173	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1174	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

Petitioner Therabody Ex-1004, 1618

		"4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L1175	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1176	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1177	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1178	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1179	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1180	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1181	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1182	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1183	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1184	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1185	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1186	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1187	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1188	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1189	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1190	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1191	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"2015020	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		1181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1192	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1193	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1194	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1195	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1196	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1197	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1198	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1199	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/16 08:23 AM

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			IBM_TDB)				
L1200	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1201	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1202	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1203	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1204	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1205	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1206	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1207	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1208	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1209	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1210	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1211	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1212	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM

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L1213	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1214	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1215	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1216	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1217	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1218	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1219	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1220	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1221	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1222	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1223	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1224	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"83628	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		82"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1225	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1226	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1227	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1228	268	L15 and L19	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1229	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1230	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1231	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1232	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1233	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1234	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1235	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1236	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1237	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1238	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1239	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1240	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1241	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1242	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1243	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1244	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1245	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1246	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1247	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1248	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1249	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1250	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1251	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1252	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1253	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1254	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1255	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1256	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1257	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1258	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1259	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"993	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		6900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1260	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1261	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1262	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1263	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1264	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/16 08:23 AM

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			IBM_TDB)				
L1265	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1266	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1267	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1268	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1269	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1270	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1271	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1272	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1273	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1274	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1275	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1276	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1277	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM

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L1278	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1279	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1280	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1281	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1282	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1283	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1284	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1285	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1286	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1287	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1288	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1289	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1290	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1291	1317	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1292	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1293	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1294	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1295	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1296	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1297	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1298	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1299	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1300	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1301	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1302	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1303	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1304	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1305	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1306	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1307	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1308	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1309	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1310	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1311	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1312	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1313	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1314	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1315	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1316	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1317	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1318	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1319	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1320	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1321	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1322	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1323	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1324	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1325	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1326	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1327	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"2014026	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		6571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1328	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1329	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1330	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1331	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1332	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1333	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1334	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1335	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1336	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1337	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1338	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1339	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1340	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1341	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1342	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1343	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1344	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1345	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1346	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1347	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1348	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1349	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1350	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1351	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1352	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1353	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1354	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1355	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1356	21	(datafeel).aanm.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1357	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1358	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1359	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1360	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1361	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1362	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1363	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1364	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1365	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1366	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1367	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1368	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1369	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1370	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1371	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1372	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1373	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1374	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1375	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1376	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1377	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1378	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1379	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1380	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1381	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1382	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1383	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1384	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1385	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1386	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1387	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1388	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1389	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1390	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1391	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1392	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1393	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1394	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1395	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"90469	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		19"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1396	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1397	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1398	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1399	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1400	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1401	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1402	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1403	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1404	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1405	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1406	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1407	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1408	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1409	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1410	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1411	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1412	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1413	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1414	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1415	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1416	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1417	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1418	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1419	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1420	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1421	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1422	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1423	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1424	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1425	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1426	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1427	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1428	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1429	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1430	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1431	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1432	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1433	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1434	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1435	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1436	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1437	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1438	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1439	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1440	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1441	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1442	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1443	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1444	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1445	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1446	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		"4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L1447	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1448	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1449	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1450	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1451	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1452	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1453	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1454	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1455	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1456	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1457	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1458	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1459	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1460	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1461	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1462	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1463	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1464	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1465	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1466	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1467	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1468	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1469	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1470	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1471	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1472	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1473	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1474	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1475	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1476	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1477	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1478	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1479	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1480	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1481	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1482	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1483	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1484	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1485	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1486	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1487	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1488	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1489	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1490	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1491	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1492	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1493	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1494	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1495	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1496	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1497	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1498	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1499	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1500	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1501	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1502	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1503	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1504	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1505	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1506	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1507	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1508	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1509	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1510	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1511	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1512	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1513	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1514	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		"4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L1515	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1516	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1517	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1518	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1519	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1520	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1521	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1522	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1523	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1524	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1525	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1526	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1527	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1528	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1529	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1530	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1531	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1532	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1533	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1534	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1535	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1536	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1537	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1538	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1539	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1540	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1541	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1542	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1543	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1544	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1545	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1546	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1547	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1548	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1549	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1550	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1551	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1552	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1553	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1554	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1555	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1556	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1557	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1558	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1559	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1560	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1561	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1562	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1563	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1564	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1565	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1566	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1567	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1568	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1569	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1570	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1571	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1572	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1573	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1574	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1575	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1576	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1577	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1578	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1579	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/16 08:23 AM

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			IBM_TDB)				
L1580	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1581	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1582	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1583	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1584	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1585	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1586	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1587	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1588	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1589	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1590	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1591	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1592	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1593	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1594	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1595	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1596	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1597	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1598	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1599	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1600	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1601	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1602	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1603	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1604	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1605	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1606	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1607	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1608	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1609	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1610	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1611	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1612	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1613	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1614	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1615	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1616	24	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/16

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1617	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1618	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1619	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1620	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1621	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1622	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1623	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1624	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1625	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1626	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1627	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1628	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1629	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1630	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1631	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1632	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L1633	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1634	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1635	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1636	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1637	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1638	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1639	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1640	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1641	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1642	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1643	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1644	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1645	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1646	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1647	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1648	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1649	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1650	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1651	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1652	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM

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L1653	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1654	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1655	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1656	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1657	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1658	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1659	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1660	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1661	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1662	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1663	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1664	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1665	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1666	1317	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1667	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM
L1668	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/02/16

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:23 AM
L1669	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1670	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1671	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1672	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1673	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1674	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1675	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1676	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1677	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1678	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1679	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1680	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1681	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/02/16 08:23 AM

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			JPO; DERWENT; IBM_TDB)				
L1682	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1683	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1684	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1685	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1686	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1687	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1688	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1689	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1690	14774	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1691	5510	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1692	4384	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1693	12809	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1694	8046	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/02/16 08:23 AM

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			IBM_TDB)				
L1695	102931	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1696	21	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1697	21	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1698	3729	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1699	1317	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1700	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L1701	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1702	1927	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1703	2211	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1704	268	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1705	70207	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1706	34	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1707	39	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1708	80	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1709	100	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM

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L1710	560	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1711	2773	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1712	2780	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1713	105	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1714	105	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1715	17	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1716	518	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1717	24	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1718	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/16 08:23 AM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L1719	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/16 08:23 AM
L1720	10882	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1721	8558	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1722	12737	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1723	14982	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L1724	28624	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/16 08:23 AM
L2214	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2215	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2216	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2217	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2218	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2219	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2220	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2221	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2222	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2223	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2224	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2225	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2226	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2227	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2228	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2229	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2230	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2231	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2232	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2233	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2234	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2235	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

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			IBM_TDB)				
L2236	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2237	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2238	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2239	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2240	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2241	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2242	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2243	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2244	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2245	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2246	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2247	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2248	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L2249	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2250	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2251	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2252	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2253	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2254	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2255	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2256	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2257	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2258	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2259	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2260	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2261	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2262	93	("10371544"|"20110148	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13

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		607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				12:09 PM
L2263	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2264	1992	L11 and (tissue with	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		interface)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2265	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2266	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2267	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2268	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2269	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2270	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2271	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2272	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2273	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2274	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2275	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2276	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2277	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2278	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2279	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2280	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2281	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2282	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2283	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2284	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2285	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2286	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2287	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2288	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2289	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2290	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2291	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2292	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2293	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2294	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2295	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2296	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2297	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2298	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2299	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2300	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2301	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2302	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2303	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2304	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2305	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2306	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2307	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2308	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2309	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2310	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2311	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2312	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2313	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2314	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2315	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2316	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2317	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2318	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2319	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2320	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2321	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2322	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2323	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2324	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2325	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2326	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2327	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2328	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2329	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2330	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2331	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2332	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2333	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2334	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2335	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2336	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2337	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2338	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2339	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2340	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2341	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2342	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2343	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2344	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2345	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2346	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2347	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2348	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2349	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2350	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L2351	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2352	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2353	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2354	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2355	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2356	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2357	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2358	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2359	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2360	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2361	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2362	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2363	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2364	1353	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2365	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2366	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2367	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2368	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2369	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2370	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2371	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2372	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2373	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2374	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2375	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2376	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2377	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2378	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2379	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2380	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2381	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2382	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2383	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2384	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2385	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2386	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2387	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2388	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2389	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2390	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2391	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2392	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2393	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2394	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2395	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2396	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2397	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2398	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2399	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2400	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2401	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2402	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2403	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2404	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2405	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2406	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2407	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2408	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2409	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2410	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2411	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2412	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2413	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2414	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2415	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2416	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L2417	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2418	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2419	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2420	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2421	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2422	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2423	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2424	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2425	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2426	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2427	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2428	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2429	24	(matthew with robert	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with leaper).in.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2430	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2431	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2432	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2433	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2434	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2435	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2436	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2437	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2438	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2439	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2440	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2441	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2442	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2443	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2444	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2445	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2446	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2447	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2448	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2449	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2450	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2451	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2452	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2453	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2454	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2455	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2456	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2457	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2458	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2459	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2460	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2461	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2462	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2463	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2464	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2465	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2466	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2467	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2468	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2469	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2470	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2471	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2472	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2473	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2474	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2475	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2476	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2477	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2478	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2479	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2480	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2481	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2482	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2483	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2484	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L2485	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2486	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2487	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2488	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2489	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2490	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2491	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2492	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2493	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2494	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2495	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2496	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2497	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2498	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2499	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2500	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2501	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2502	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2503	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2504	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2505	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2506	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2507	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2508	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2509	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2510	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2511	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2512	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2513	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2514	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2515	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2516	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2517	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2518	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2519	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2520	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2521	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2522	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2523	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2524	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2525	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2526	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2527	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2528	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2529	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2530	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2531	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2532	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2533	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2534	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2535	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2536	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2537	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2538	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2539	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2540	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2541	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2542	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2543	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2544	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2545	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2546	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2547	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2548	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2549	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2550	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2551	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2552	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2553	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2554	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2555	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2556	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2557	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2558	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2559	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2560	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2561	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2562	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2563	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2564	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2565	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2566	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2567	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2568	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2569	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2570	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2571	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2572	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2573	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2574	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2575	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2576	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2577	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2578	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2579	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2580	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2581	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2582	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2583	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2584	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2585	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2586	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2587	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2588	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2589	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2590	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2591	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2592	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2593	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2594	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2595	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2596	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2597	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2598	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2599	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2600	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L2601	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2602	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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L2603	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2604	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2605	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2606	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2607	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2608	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2609	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2610	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2611	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2612	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2613	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2614	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2615	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2616	108	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		skin with energ$3)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2617	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2618	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2619	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2620	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2621	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2622	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2623	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2624	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2625	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2626	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2627	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2628	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2629	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2630	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2631	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2632	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2633	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2634	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2635	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2636	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2637	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1721

		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2638	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2639	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1722

			JPO; DERWENT; IBM_TDB)				
L2640	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2641	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2642	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2643	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2644	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2645	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2646	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2647	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2648	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2649	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2650	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2651	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2652	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1723

			IBM_TDB)				
L2653	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2654	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2655	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2656	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2657	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2658	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2659	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2660	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2661	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2662	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2663	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2664	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2665	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1724

L2666	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2667	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2668	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2669	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2670	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"60384	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1725

		85"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2671	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2672	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2673	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2674	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2675	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2676	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2677	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2678	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2679	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2680	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2681	2834	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

Petitioner Therabody Ex-1004, 1726

		skin)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2682	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2683	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2684	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2685	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2686	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2687	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2688	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2689	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR,	OR	ON	ON	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1727

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L2690	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2691	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2692	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2693	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2694	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2695	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2696	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2697	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2698	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2699	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2700	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2701	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2702	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1728

			JPO; DERWENT; IBM_TDB)				
L2703	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2704	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2705	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1729

		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2706	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2707	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2708	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2709	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2710	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2711	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2712	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2713	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2714	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2715	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2716	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2717	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1730

L2718	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2719	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2720	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2721	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2722	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2723	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2724	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2725	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2726	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2727	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2728	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2729	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2730	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2731	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2732	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2733	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2734	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2735	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2736	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2737	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2738	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2739	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2740	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2741	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2742	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2743	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2744	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2745	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2746	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2747	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2748	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2749	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2750	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2751	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2752	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2753	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2754	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2755	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2756	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L2757	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2758	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2759	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2760	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2761	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2762	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2763	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2764	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2765	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2766	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2767	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2768	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2769	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2770	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2771	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2772	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2773	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2774	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2775	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2776	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2777	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2778	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2779	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2780	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2781	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2782	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2783	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2784	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2785	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2786	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2787	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2788	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2789	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2790	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2791	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2792	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2793	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2794	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2795	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2796	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2797	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2798	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2799	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2800	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2801	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2802	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2803	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2804	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2805	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2806	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2807	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2808	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2809	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2810	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2811	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2812	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2813	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2814	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2815	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2816	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2817	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2818	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2819	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2820	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2821	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2822	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2823	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2824	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L2825	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2826	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2827	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2828	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2829	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2830	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2831	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2832	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2833	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2834	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2835	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2836	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2837	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2838	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2839	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2840	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2841	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2842	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2843	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2844	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2845	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2846	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2847	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2848	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2849	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2850	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2851	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2852	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2853	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2854	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2855	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2856	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2857	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2858	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2859	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2860	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2861	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2862	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2863	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2864	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2865	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2866	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2867	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2868	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2869	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2870	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2871	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2872	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2873	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2874	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2875	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2876	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2877	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2878	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2879	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2880	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2881	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2882	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2883	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2884	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2885	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2886	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2887	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2888	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2889	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

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			IBM_TDB)				
L2890	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2891	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2892	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2893	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2894	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2895	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2896	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2897	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L2898	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2899	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2900	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2901	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2902	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2903	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2904	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2905	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2906	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2907	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2908	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2909	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L2910	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2911	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2912	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2913	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2914	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2915	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2916	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2917	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2918	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2919	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2920	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2921	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2922	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2923	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2924	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2925	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2926	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2927	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2928	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2929	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2930	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2931	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2932	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2933	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2934	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2935	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2936	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2937	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2938	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2939	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2940	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2941	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2942	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L2943	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2944	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2945	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2946	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2947	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2948	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2949	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2950	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2951	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2952	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2953	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2954	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L2955	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2956	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2957	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2958	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2959	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2960	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2961	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2962	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L2963	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2964	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2965	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2966	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2967	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2968	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2969	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2970	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2971	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2972	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2973	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2974	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2975	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2976	1353	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2977	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L2978	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L2979	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2980	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2981	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2982	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2983	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2984	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2985	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2986	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2987	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2988	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2989	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2990	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2991	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L2992	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2993	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2994	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L2995	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2996	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2997	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2998	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L2999	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3000	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3001	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3002	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3003	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3004	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3005	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3006	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3007	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3008	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3009	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3010	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3011	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3012	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3013	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3014	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3015	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3016	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3017	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3018	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3019	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3020	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3021	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3022	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3023	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3024	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3025	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3026	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3027	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3028	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L3029	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3030	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3031	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3032	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3033	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3034	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3035	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3036	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3037	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3038	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3039	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3040	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3041	24	(matthew with robert	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with leaper).in.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3042	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3043	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3044	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3045	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3046	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3047	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3048	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3049	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3050	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3051	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3052	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3053	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3054	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3055	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3056	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3057	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3058	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3059	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3060	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3061	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3062	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3063	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3064	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3065	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3066	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3067	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3068	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3069	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3070	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3071	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3072	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3073	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3074	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3075	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3076	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3077	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3078	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3079	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3080	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3081	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3082	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3083	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3084	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3085	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3086	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3087	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3088	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3089	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3090	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3091	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3092	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3093	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3094	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3095	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3096	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L3097	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3098	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3099	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3100	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3101	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3102	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3103	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3104	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3105	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3106	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3107	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3108	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3109	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3110	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3111	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3112	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3113	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3114	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3115	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3116	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3117	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3118	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3119	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3120	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3121	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3122	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3123	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3124	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3125	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3126	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3127	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3128	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3129	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3130	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3131	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3132	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3133	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3134	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3135	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3136	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3137	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3138	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3139	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3140	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3141	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3142	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3143	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3144	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3145	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3146	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3147	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3148	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3149	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3150	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3151	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3152	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3153	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3154	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3155	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3156	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3157	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3158	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3159	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3160	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3161	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3162	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3163	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3164	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3165	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3166	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3167	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3168	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3169	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3170	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3171	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3172	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3173	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3174	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3175	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3176	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3177	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3178	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3179	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3180	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3181	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3182	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3183	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3184	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3185	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3186	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3187	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3188	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3189	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3190	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3191	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3192	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3193	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3194	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3195	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3196	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3197	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3198	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3199	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3200	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3201	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3202	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3203	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3204	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3205	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3206	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3207	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3208	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3209	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3210	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3211	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3212	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L3213	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3214	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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L3215	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3216	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3217	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3218	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3219	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3220	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3221	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3222	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3223	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3224	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3225	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3226	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3227	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3228	108	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		skin with energ$3)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3229	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3230	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3231	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3232	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3233	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3234	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3235	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3236	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3237	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3238	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3239	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3240	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3241	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3242	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3243	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3244	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3245	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3246	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3247	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3248	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3249	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3250	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3251	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3252	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3253	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3254	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3255	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3256	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3257	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3258	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3259	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3260	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3261	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3262	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3263	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3264	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

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			IBM_TDB)				
L3265	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3266	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3267	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3268	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3269	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3270	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3271	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3272	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3273	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3274	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3275	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3276	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3277	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L3278	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3279	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3280	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3281	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3282	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"60384	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		85"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3283	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3284	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3285	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3286	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3287	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3288	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3289	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3290	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3291	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3292	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3293	2834	L11 and (output$4 with	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		skin)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3294	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3295	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3296	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3297	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3298	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3299	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3300	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3301	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR,	OR	ON	ON	2024/05/13 12:09 PM

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			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L3302	1421	588 AND (grip$4 WITH hand)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3303	7411	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3304	26869	a61h23/02.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3305	25477	a61h2201/0207.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3306	2849	a61h2201/123.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3307	4929	a61h2201/1664.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3308	5302	a61h2205/065.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3309	2260	a61h2230/065.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3310	10561	a61h2201/0153.cpc.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3311	193657	L1098 L1097 L1096 L1095 L1094 L1093 L1091 L1090 L588	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3312	2224	1099 AND (tissue WITH	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		interface)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3313	432	1099 AND (communicat$3 near3 nerv$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3314	1481	1099 AND (communicat$3 WITH nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3315	142	1099 AND (output$4 WITH skin WITH energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3316	142	1099 AND (output$4 WITH skin WITH energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3317	3178	1099 AND (output$5 WITH skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3318	2224	1099 AND (tissue WITH interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3319	5453	1099 AND (energ$3 WITH (skin nerve bone muscle))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3320	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3321	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3322	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3323	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3324	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3325	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3326	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3327	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3328	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3329	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3330	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3331	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3332	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3333	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3334	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3335	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"993	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		6900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3336	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3337	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3338	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3339	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3340	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

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			IBM_TDB)				
L3341	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3342	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3343	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3344	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3345	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3346	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3347	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3348	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3349	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3350	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3351	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3352	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3353	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L3354	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3355	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3356	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3357	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3358	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3359	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3360	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3361	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3362	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3363	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3364	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3365	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3366	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3367	1353	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3368	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3369	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3370	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3371	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3372	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3373	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3374	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3375	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3376	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3377	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3378	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3379	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3380	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3381	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3382	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3383	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3384	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3385	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3386	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3387	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3388	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3389	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3390	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3391	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3392	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3393	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3394	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3395	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3396	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3397	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3398	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3399	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3400	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3401	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3402	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3403	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"2014026	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		6571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3404	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3405	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3406	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3407	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3408	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3409	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3410	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3411	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3412	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3413	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3414	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3415	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3416	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3417	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3418	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3419	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3420	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3421	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3422	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3423	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3424	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3425	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3426	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3427	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3428	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3429	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3430	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3431	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3432	24	(datafeel).aanm.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3433	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3434	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3435	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3436	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3437	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3438	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3439	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3440	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3441	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3442	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3443	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3444	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3445	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3446	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3447	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3448	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3449	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3450	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3451	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3452	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3453	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3454	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3455	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3456	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3457	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3458	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3459	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3460	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3461	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3462	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3463	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3464	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3465	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3466	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3467	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3468	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3469	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3470	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3471	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"90469	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		19"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3472	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3473	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3474	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3475	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3476	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3477	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3478	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3479	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3480	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3481	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3482	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3483	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3484	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3485	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3486	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3487	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3488	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3489	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3490	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3491	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3492	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3493	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3494	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3495	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3496	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3497	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3498	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3499	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3500	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3501	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3502	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3503	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3504	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3505	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3506	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3507	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3508	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3509	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3510	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3511	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3512	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3513	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3514	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3515	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3516	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3517	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3518	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3519	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3520	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3521	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3522	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L3523	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3524	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3525	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3526	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3527	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3528	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3529	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3530	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3531	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3532	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3533	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3534	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3535	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3536	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3537	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3538	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3539	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3540	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3541	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3542	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3543	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3544	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3545	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3546	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3547	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3548	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3549	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3550	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3551	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3552	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3553	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3554	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3555	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3556	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3557	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3558	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3559	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3560	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3561	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3562	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3563	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3564	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3565	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3566	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3567	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3568	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3569	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3570	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3571	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3572	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"95	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1820

		82034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3573	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3574	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3575	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3576	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3577	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3578	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3579	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3580	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3581	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3582	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3583	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3584	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3585	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3586	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3587	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3588	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3589	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3590	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

Petitioner Therabody Ex-1004, 1822

		"4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L3591	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3592	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3593	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3594	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3595	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3596	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3597	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3598	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3599	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3600	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3601	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3602	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3603	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3604	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3605	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3606	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3607	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3608	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3609	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3610	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3611	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3612	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3613	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3614	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3615	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3616	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3617	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3618	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3619	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3620	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3621	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3622	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3623	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3624	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3625	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3626	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3627	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3628	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3629	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3630	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3631	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3632	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3633	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3634	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3635	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3636	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3637	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3638	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3639	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3640	93	("10371544"|"20110148607"|"20140198035"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3641	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3642	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3643	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3644	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3645	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3646	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3647	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3648	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3649	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3650	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3651	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3652	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3653	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3654	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3655	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/05/13 12:09 PM

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			IBM_TDB)				
L3656	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3657	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3658	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3659	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3660	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3661	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3662	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3663	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3664	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3665	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3666	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3667	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3668	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3669	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3670	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3671	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3672	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3673	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3674	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3675	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3676	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3677	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3678	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3679	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3680	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3681	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3682	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3683	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3684	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3685	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3686	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3687	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3688	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3689	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3690	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3691	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3692	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3693	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3694	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3695	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3696	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3697	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3698	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3699	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3700	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3701	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3702	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3703	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3704	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3705	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3706	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3707	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3708	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3709	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3710	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3711	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3712	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3713	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3714	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3715	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3716	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3717	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3718	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3719	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3720	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3721	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3722	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3723	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3724	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3725	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3726	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3727	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3728	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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L3729	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3730	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3731	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3732	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3733	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3734	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3735	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3736	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3737	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3738	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3739	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3740	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3741	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3742	1353	L11 and (communicat$3	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with nerve$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3743	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3744	3	"20160129248".pn.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3745	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3746	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3747	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3748	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3749	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3750	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3751	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3752	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3753	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3754	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3755	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3756	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3757	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3758	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3759	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3760	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3761	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3762	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3763	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3764	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3765	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3766	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3767	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3768	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3769	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3770	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3771	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3772	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3773	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3774	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3775	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3776	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"2019	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3777	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3778	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3779	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3780	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3781	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3782	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3783	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3784	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3785	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3786	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3787	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3788	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3789	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3790	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3791	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3792	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3793	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3794	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"4366353" "4367229" "4375510" "4381127").pn.					
L3795	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3796	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3797	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3798	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3799	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3800	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3801	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3802	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3803	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3804	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3805	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3806	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3807	24	(matthew with robert	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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		with leaper).in.	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3808	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3809	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3810	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3811	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"701317	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		9"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.					
L3812	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3813	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3814	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3815	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3816	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3817	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3818	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3819	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3820	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3821	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3822	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	OFF	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3823	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3824	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3825	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3826	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3827	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3828	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3829	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3830	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3831	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3832	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3833	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3834	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3835	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3836	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3837	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3838	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3839	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3840	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3841	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3842	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3843	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3844	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"2010	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3845	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3846	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3847	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3848	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3849	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3850	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3851	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3852	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3853	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3854	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3855	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3856	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3857	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3858	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3859	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3860	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3861	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3862	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		"5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.					
L3863	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3864	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3865	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3866	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3867	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3868	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3869	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3870	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3871	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3872	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2024/05/13

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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3873	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3874	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3875	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3876	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3877	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3878	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3879	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"2	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		0140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3880	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3881	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3882	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3883	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3884	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3885	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3886	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3887	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/05/13 12:09 PM

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			JPO; DERWENT; IBM_TDB)				
L3888	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3889	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3890	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3891	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3892	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3893	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3894	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3895	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3896	33	L15 and (plurality with energy with typ$2)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3897	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3898	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3899	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3900	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	OFF	2024/05/13 12:09 PM

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			IBM_TDB)				
L3901	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3902	15021	a61b5/6833.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3903	5569	a61b2560/0412.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3904	4490	a61b2560/0468.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3905	13005	a61n1/0456.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3906	8215	a61n1/0484.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3907	104897	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3908	24	(datafeel).aanm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3909	24	(matthew with robert with leaper).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3910	3802	L11 and (communicat$3 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3911	1353	L11 and (communicat$3 with nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3912	93	("10371544"|"20110148607"|"20140198035"|"20140266570"|"20140266571"|"20150290454"|"20160165965"|"20160187977"|"20160267344"|"20160338644"|"20170095692"|"20170095693"|"20170156662"|"6275	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM

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		213"|"7390157"|"8362882"|"9008794"|"9024874"|"9083821"|"9092954"|"9198792"|"9274603"|"9308363"|"9408316"|"9466187"|"9553625"|"9582034"|"9754078"|"9936900"|"9940811"|"10019912"|"10070799"|"10198076"|"20040040800"|"20040210122"|"20040241623"|"20070016425"|"20100073150"|"20100141407"|"20100162109"|"20100259472"|"20100304864"|"20120035513"|"20120232780"|"20130218456"|"20140085077"|"20140184384"|"20140198034"|"20150201181"|"20150235529"|"20150339899"|"20160195928"|"20160349790"|"20170004685"|"20180303702"|"20180307314"|"20190064924"|"20190076643"|"2327222"|"3108268"|"3594787"|"3848608"|"4167189"|"4510939"|"4926879"|"5449378"|"5719561"|"6038485"|"6712613"|"7013179"|"7110820"|"7324094"|"7687678"|"7696860"|"8170656"|"8175718"|"8308558"|"8364257"|"8369944"|"8633907"|"8696357"|"8766786"|"8965500"|"9042971"|"9046919"|"9195350"|"9282893"|"9364667"|"9417694"|"9454915"|"9607492"|"9652946"|"9884179").PN.				
L3913	3	"20160129248".pn.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3914	1992	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3915	2279	L11 and (tissue with interface)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM

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L3916	275	L15 and L19	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3917	71328	(plurality multiple) with different with energy	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3918	37	L14 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3919	48	L15 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3920	85	L19 and L21	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3921	112	L22 L23 L24	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3922	575	L11 and (communicat$3 near3 nerve$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3923	2834	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3924	2841	L11 and (output$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3925	108	L11 and (output$4 with skin with energy)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3926	108	L11 and (output$4 with skin with energ$3)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3927	19	L26 and L30	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3928	530	L15 and (attach$4 with skin)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3929	33	L15 and (plurality with	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/13

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		energy with typ$2)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				12:09 PM
L3930	50	("4770410" "5637144" "6145625" "4246184" "4269744" "4286481" "4301570" "4302939" "4436326" "4448396" "4551623" "4555258" "4796926" "4806203" "4836893" "4921707" "5188692" "5202667" "5250146" "5406914" "5494546" "6036446" "4243070" "4257482" "4269611" "4272640" "4273374" "4281805" "4288558" "4299530" "4310334" "4320333" "4324078" "4324921" "4330553" "4334908" "4336606" "4338499" "4338737" "4347679" "4352957" "4355357" "4359761" "4360187" "4362072" "4365112" "4366353" "4367229" "4375510" "4381127").pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/13 12:09 PM
L3931	2	"20020143373".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/13 12:09 PM
L3932	11060	a61b5/1112.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3933	8796	a61b5/1114.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3934	13082	a61b5/4848.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3935	15218	a61b5/486.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM
L3936	29226	a61b5/681.cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/13 12:09 PM

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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N68	3059	a61b5/1112.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N69	1657	a61b5/1114.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N70	2679	a61b5/4848.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N71	3735	a61b5/486.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N72	5729	a61b5/681.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N73	3087	a61b5/6833.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N74	1496	a61b2560/0412.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N75	904	a61b2560/0468.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N76	2557	a61n1/0456.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N77	1515	a61n1/0484.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:03 PM
N78	1606778	(communication).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N79	4138	(tissue with interface).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N80	3383	(energy with generator$1 with plurality).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N81	84447	(plurality with energ$3).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N82	10925	(attach$4 with skin).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N83	1127	(communicat$3 with nerv$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:04 PM
N84	808	N78 and N79	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:10 PM
N85	529	N78 and N80	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:10 PM
N86	13645	N78 and N81	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:10 PM
N87	1477	N78 and N82	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N88	915	N78 and N83	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N89	12	N82 and N83	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM

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N90	13	N80 and N82	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N91	3059	a61b5/1112.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N92	1657	a61b5/1114.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N93	2679	a61b5/4848.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N94	3735	a61b5/486.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N95	5729	a61b5/681.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N96	3087	a61b5/6833.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N97	1496	a61b2560/0412.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N98	904	a61b2560/0468.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N99	2557	a61n1/0456.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N100	1515	a61n1/0484.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N101	1606778	(communication).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N102	4138	(tissue with interface).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N103	3383	(energy with generator$1 with plurality).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N104	84447	(plurality with energ$3).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N105	10925	(attach$4 with skin).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N106	1127	(communicat$3 with nerv$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N107	808	N78 and N79	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N108	529	N78 and N80	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N109	13645	N78 and N81	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N110	1477	N78 and N82	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N111	915	N78 and N83	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N112	12	N82 and N83	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N113	13	N80 and N82	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09 04:11 PM
N114	21842	N91 N92 N93 N94 N95	(US-PGPUB; USPAT)	OR	OFF	OFF	2020/11/09

Petitioner Therabody Ex-1004, 1861

		N96 N97 N98 N99 N100					04:37 PM
N115	2286	(skin WITH facing WITH surface).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/10 09:14 AM
N116	125	115 AND 114	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/11 10:22 AM
N117	3	115 AND (differ$3 WITH energy WITH types).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/11 10:22 AM
N118	30158	(grip$4 WITH hand).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 09:38 AM
N119	709	a61h23/006.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N120	2878	a61h23/02.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N121	2782	a61h2201/0207.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N122	589	a61h2201/123.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N123	1071	a61h2201/1664.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N124	696	a61h2205/065.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N125	587	a61h2230/065.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:57 AM
N126	2097	a61h2201/0153.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:58 AM
N127	40834	N114 N119 N120 N121 N122 N123 N124 N125 N126	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/05 10:58 AM

Petitioner Therabody Ex-1004, 1862

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	18526980
Filing Date	2023-12-01
First Named Inventor	Matthew Robert Leaper
Art Unit	2884
Examiner Name	Mark R GAWORECKI
Attorney Docket Number	DF-P01-US08

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6413230	B1	2002-07-02	Haupt et al.	Entire Document
	2	8979775	B2	2015-03-17	Schafer et al.	Entire Document
	3	9703381	B2	2017-07-11	Gallo et al.	Entire Document
	4	10437340	B1	2019-10-08	Sullivan	Entire Document

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20190278374	A1	2019-09-12	Sato et al.	Entire Document
	2	20030153961	A1	2003-08-14	Babaev, Eilaz	Entire Document

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R.G/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18526980
	Filing Date	2023-12-01
	First Named Inventor	Matthew Robert Leaper
	Art Unit	2884
	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

	3	20080312647	A1	2008-12-18	Knopp et al.	Entire Document
	4	20090156958	A1	2009-06-18	MEHTA et al.	Entire Document
	5	20100137752	A1	2010-06-03	Heine et al.	Entire Document
	6	20100204694	A1	2010-08-12	MEHTA et al.	Entire Document
	7	20150182762	A1	2015-07-02	Schafer et al.	Entire Document
	8	20150217142	A1	2015-08-06	Schafer	Entire Document
	9	20150220199	A1	2015-08-06	Wang et al.	Entire Document
	10	20150283277	A1	2015-10-08	Schafer et al.	Entire Document
	11	20170348049	A1	2017-12-07	Vrba et al.	Entire Document
	12	20190278374	A1	2019-09-12	SATO et al.	Entire Document

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	18526980
Filing Date	2023-12-01
First Named Inventor	Matthew Robert Leaper
Art Unit	2884
Examiner Name	Mark R GAWORECKI
Attorney Docket Number	DF-P01-US08

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	101767485	KR	B1	2017-08-11	Song et al.	Entire Document	☐
	2	20120018245	KR	A	2012-03-02	Jo et al.	Entire Document	☐
	3	2016019250	WO	A1	2016-02-04	Toth et al.	Entire Document	☐
	4	2018143418	WO	A1	2018-08-09	Sato et al.	Entire Document	☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	SINGHAL, ANSHUL et al., Perceptual Interactions in thermo-tactile displays, June 2017, 5 pages, 2017 Institute of Electrical and Electronics Engineers (IEEE) World Haptics Conference, Munich, Germany, 6-9 June, 2017.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/MARK R GAWORECKI/	Date Considered	05/13/2024

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R.G/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18526980
	Filing Date	2023-12-01
	First Named Inventor	Matthew Robert Leaper
	Art Unit	2884
	Examiner Name	Mark R GAWORECKI
	Attorney Docket Number	DF-P01-US08

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/MATTHEW LEAPER/	Date (YYYY-MM-DD)	2024-04-30
Name/Print	Matthew Leaper	Registration Number	73,966

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R.G/

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R.G/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

158475 7590 05/20/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

EXAMINER
GAWORECKI, MARK R

ART UNIT	PAPER NUMBER
2884	

DATE MAILED: 05/20/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

TITLE OF INVENTION: COMMUNICATION DEVICES, METHODS, AND SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$480.00	$0	08/20/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

Petitioner Therabody Ex-1004, 1868

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

158475 7590 05/20/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

TITLE OF INVENTION: COMMUNICATION DEVICES, METHODS, AND SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$480.00	$0	08/20/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
GAWORECKI, MARK R	2884	600-301000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (11/23) Approved for use through 03/31/2026 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Petitioner Therabody Ex-1004, 1869

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

158475 7590 05/20/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

EXAMINER	
GAWORECKI, MARK R	

ART UNIT	PAPER NUMBER
2884	

DATE MAILED: 05/20/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 11/23)

Petitioner Therabody Ex-1004, 1870

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/526,980	Applicant(s) Leaper, Matthew Robert	
	Examiner MARK R GAWORECKI	Art Unit 2884	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the communication filed 30 April 2024.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1,3-23 and 25-30 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 04/30/2024.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MARK R GAWORECKI/
Primary Examiner, Art Unit 2884

Petitioner Therabody Ex-1004, 1872

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 30 April 2024 has been entered.

Allowable Subject Matter

3. Claims 1, 3-23, and 25-30 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Creasey *et al.* (US 2016/0129248 A1, cited by Applicant) discloses a treatment system (activation of nerves by topical stimulators, thus "treating" them, par. [0003]) comprising a body comprising a skin facing surface and an opposing surface ("can be placed on the skin of a human or mammal", par. [0032], and corresponding opposite surface), a plurality of energy generators (electrodes, 408, par. [0052]), wherein a processing

unit is configured to communicate with nerves associated with the skin ("electronic circuits or chips that perform the functions…", par. [0052]). Creasey further discloses the use of an adhesive for attaching the device to a biological subject (par. [0057]; adhesive for adherence to skin).

With respect to claims 1, 9, 18, and 21, Creasey does not disclose the claimed configuration including a plurality of energy generator elements being independently operable to convert electricity from the power source into a plurality of different energy types transmittable towards an area of skin of a user in addition to a grip arranged to be grasped by a hand of the user applying a gripping force to maintain the plurality of energy generator elements on or adjacent the area of skin, as claimed.

With further respect to claims 1, 9, 18, and 21, Creasey also does not specify an impact generator having a tissue contact surface that is linearly actuatable along an axis to contact and cause corresponding physical movement of an area of skin.

Claims 3-8, 10-17, 19-20, and 22-23, and 25-30 are allowable for reasons of dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK R GAWORECKI whose telephone number is (571)272-8540. The examiner can normally be reached Monday-Friday 8 AM-6 PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID MAKIYA can be reached on 571-272-2273. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about

filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MARK R GAWORECKI/
Primary Examiner, Art Unit 2884
13 May 2024

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

158475 7590 05/20/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

MATTHEW R. LEAPER	(Typed or printed name)
/MATTHEW R. LEAPER/	(Signature)
MAY 28, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

TITLE OF INVENTION: COMMUNICATION DEVICES, METHODS, AND SYSTEMS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$480.00	$0	08/20/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
GAWORECKI, MARK R	2884	600-301000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE DATAFEEL INC. (B) RESIDENCE: (CITY and STATE OR COUNTRY) WASHINGTON, D.C.

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ☒ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 603446

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☒ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /MATTHEW R. LEAPER/ Date MAY 28, 2024

Typed or printed name MATTHEW R. LEAPER Registration No. 73966

PTOL-85 Part B (11/23) Approved for use through 03/31/2026 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Petitioner Therabody Ex-1004, 1877

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/526,980	**05/28/2024 09:10:34 PM Z ET**	**DF-P01-US08**

Title of Invention

COMMUNICATION DEVICES, METHODS, AND SYSTEMS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2825	FILED BY	Matthew Leaper
PATENT CENTER #	65704601	FILING DATE	12/01/2023
CUSTOMER #	158475	FIRST NAMED INVENTOR	Matthew Robert Leaper
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
DF-P01-US08-Part B - No Fees Due.pdf	1	Issue Fee Payment (PTO-85B)	150 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
DF-P01-US08-Part B - No Fees Due.pdf	21829B8A2184EF30884EC878F40CDFC32D43BDA1CB8C47B6 6D729A6585ADEEAD48B06244EAEF71F695C6A918256553E64 8485FB1B2D226F3273ABDE97B5A3960

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized

by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

OPAP 05/28/2024
MAY 28 2024
PATENT & TRADEMARK OFFICE

PART B - FEE(S) TRANSMITTAL

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158475 7590 05/20/2024
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MATTHEW R. LEAPER	(Typed or printed name)
/MATTHEW R. LEAPER/	(Signature)
MAY 28, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

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EXAMINER	ART UNIT	CLASS-SUBCLASS
GAWORECKI, MARK R	2884	600-301000

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Authorized Signature /MATTHEW R. LEAPER/ Date MAY 28, 2024

Typed or printed name MATTHEW R. LEAPER Registration No. 73966

PTOL-85 Part B (11/23) Approved for use through 03/31/2026 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Petitioner Therabody Ex-1004, 1880

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Sengpheth Sandara

Refund Accounting Date:05/29/2024

Effective Date	Sale Item Reference Number	Refund Total
05/29/2024	18526980	$480.00

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method	Account Number
I20245SE39188318	2501	UTILITY APPL ISSUE FEE	$480.00	DA	603446

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Sengpheth Sandara

Sale Accounting Date:05/29/2024

Sale Item Reference Number	Effective Date
18526980	05/28/2024

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20245SE41068245	2501	UTILITY APPL ISSUE FEE	$480.00	Deposit Account

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Sengpheth Sandara

Sale Adjustment Accounting Date:05/29/2024

Effective Date	Sale Accounting Date	Sale Item Reference Number
05/29/2024	05/29/2024	18526980

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20245SE39188318	2501	UTILITY APPL ISSUE FEE	$480.00	DA

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	07/16/2024	12036174	DF-P01-US08	2825

158475 7590 06/26/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

Petitioner Therabody Ex-1004, 1884

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Matthew Robert Leaper, Omaha, NE;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

DATAFEEL INC., Washington, DC;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/526,980	12/01/2023	Matthew Robert Leaper	DF-P01-US08	2825

158475 7590 07/16/2024

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
SUITE 300
WASHINGTON, DC 20006

EXAMINER	
GAWORECKI, MARK R	

ART UNIT	PAPER NUMBER
2884	

NOTIFICATION DATE	DELIVERY MODE
07/16/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTO@DATAFEEL.COM
eofficeaction@appcoll.com

Petitioner Therabody Ex-1004, 1886

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/526,980	16-Jul-2024	12036174

DATAFEEL INC.
MATTHEW LEAPER, REGISTERED PATENT ATTORNEY
1629 K Street NW
WASHINGTON, DC 20006

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

Petitioner Therabody Ex-1004, 1887