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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	02/28/2023	11589660	DYS-001675A-US	7883

55694 7590 02/08/2023

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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 1288 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 Application Information Retrieval (PAIR) WEB site (http://pair.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.

INVENTOR(s) (Please see PAIR WEB site http://pair.uspto.gov for additional inventors):

Daniel John THOMPSON, Bristol, UNITED KINGDOM;
Lauren Elise FAIRHOLM, Toronto, CANADA;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Dyson Technology Limited, Wiltshire, UNITED KINGDOM;

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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 1 of 368

UNITED STATES PATENT AND TRADEMARK OFFICE

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Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 01/30/2023

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER
LUCCHESI, NICHOLAS D

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
01/30/2023	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):

DBRIPDocket@faegredrinker.com

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SharkNinja et al. v. Dyson Technology Limited,
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Notice of Allowability	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	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 1/11/2023.
   ☐ 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 See Continuation Sheet . 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 _____.
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 _____.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 3 of 368

Continuation of 3. The allowed claim(s) is/are: 1-7,9-25,27 and 29-42

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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
/N.D.L/	1	3280439		1966-10-25	McCarthy	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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
/N.D.L/	1	20150265022		2015-09-24	Maclaine	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
/N.D.L/	1	2008-105454	JP		2008-05-08		Machine Translation	☒
/N.D.L/	2	2015-181947	JP		2015-10-22	Dyson Technology Limited	Corresponds to US 2015/0265022 cited above	☐
/N.D.L/	3	45-13287	JP		1970-05-14		Machine Translation	☒

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 5 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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]
/N.D.L/	1	Notification of Grounds for Rejection mailed December 10, 2018, directed to JP Application No. 2017-168409; 10 pages	X

If you wish to add additional non-patent literature document citation information please click the Add button [Add]

EXAMINER SIGNATURE

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

*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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 6 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2019-08-02
Name/Print	Christopher Gloria	Registration Number	71907

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.**

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 7 of 368

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.

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 8 of 368

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	**Art Unit**
	NICHOLAS D LUCCHESI	3772

☐ 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	6	10	18	19		28	28	37						
2	2	10	11	19	20	37	29	29	38						
3	3	11	12	20	21	38	30	30	39						
4	4	12	13	21	22	39	31	31	40						
7	5	13	14	22	23	23	32	35	41						
9	6	14	15	33	24	24	33	32	42						
8	7	15	16	34	25	25	34								
	8	16	17		26	26	35								
5	9	17	18	36	27	27	36								

Change(s) applied
to document,
/N.B.H./
10/26/2022

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	39	
/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	06 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office

Part of Paper No.: 20221006

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 9 of 368

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

55694 7590 10/14/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

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 EFS-Web 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.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

TITLE OF INVENTION: HAND HELD APPLIANCE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/17/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
LUCCHESI, NICHOLAS D	3772	132-271000

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 Faegre Drinker Biddle & Reath LLP
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: Dyson Technology Limited

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Malmesbury, Wiltshire, United Kingdom

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) ☐ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ☐ 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. **50-0573 (any deficiencies)**

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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.
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.
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 /Christopher P Bruenjes/ Date January 12, 2023

Typed or printed name Christopher P. Bruenjes Registration No. 62,941

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 10 of 368

Electronic Patent Application Fee Transmittal

Application Number:	15689705
Filing Date:	29-Aug-2017
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Filer:	Christopher P. Bruenjes/Margit Phillips
Attorney Docket Number:	DYS-001675A-US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1200**

Electronic Acknowledgement Receipt

EFS ID:	47358922
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Christopher P. Bruenjes/Margit Phillips
Filer Authorized By:	Christopher P. Bruenjes
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	12-JAN-2023
Filing Date:	29-AUG-2017
Time Stamp:	10:43:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1200
RAM confirmation Number	E20231BA44120513
Deposit Account	500573
Authorized User	Margit Phillips
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.20 (Post Issuance fees) 37 CFR 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	DYS-001675A-US_Issue_Fee_Transmittal.pdf	230753 a74542cbf6699d8e884697e85456a0fd32a5313f	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37692 bd58f7c2444c5fdd30e3db60286521f394ee8a36	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	268445		

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 a 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.

Electronic Acknowledgement Receipt

EFS ID:	47355165
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Christopher P. Bruenjes/Margit Phillips
Filer Authorized By:	Christopher P. Bruenjes
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	11-JAN-2023
Filing Date:	29-AUG-2017
Time Stamp:	15:56:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	DYS-001675A-US_Request_for_Acknowledgment_of_PTO-SB-08.pdf	584238 bfb88ee9b570e093177165d2bb06c96046d3337b	no	5

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 15 of 368

Information:	
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New Applications Under 35 U.S.C. 111

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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

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PATENT
ATTORNEY DOCKET NO. DYS-001675A-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Daniel John THOMPSON et al.	Allowed: October 14, 2022
Application No.: 15/689,705	Confirmation No.: 7883
Filed: August 29, 2017	Art Unit: 3772
For: HAND HELD APPLIANCE	Examiner: N. D. Lucchesi

MAIL STOP ISSUE FEE
Commissioner for Patents
Washington, D.C. 20231

Sir:

REQUEST FOR ACKNOWLEDGEMENT OF PTO/SB/08

The initialed copy of the Form PTO/SB/08, filed on August 2, 2019 is missing initials for the foreign patent reference citation no. 3 (JP- 45-13287), as shown by the attached copy.

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Respectfully submitted,

FAEGRE DRINKER BIDDLE & REATH LLP

/Christopher P Bruenjes/
Christopher P. Bruenjes, Reg. No. 62,941

Date: January 11, 2023
Customer No. 055694
FAEGRE DRINKER BIDDLE & REATH LLP
1500 K. Street, N.W., Suite 1100
Washington, DC 20005-1209
Tel: (202) 842-8800
Fax: (202) 842-8465

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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
/N.D.L/	1	3280439		1966-10-25	McCarthy	

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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
/N.D.L/	1	20150265022		2015-09-24	Maclaine	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
/N.D.L/	1	2008-105454	JP		2008-05-08		Machine Translation	☒
/N.D.L/	2	2015-181947	JP		2015-10-22	Dyson Technology Limited	Corresponds to US 2015/0265022 cited above	☐
	3	45-13287	JP		1970-05-14		Machine Translation	☒

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 18 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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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]
/N.D.L/	1	Notification of Grounds for Rejection mailed December 10, 2018, directed to JP Application No. 2017-168409; 10 pages	X

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EXAMINER SIGNATURE

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

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[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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 19 of 368

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Attorney Docket Number	42466-21238.00

CERTIFICATION STATEMENT

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

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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	/christopher gloria/	Date (YYYY-MM-DD)	2019-08-02
Name/Print	Christopher Gloria	Registration Number	71907

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.**

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 20 of 368

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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 21 of 368

PATENT
ATTORNEY DOCKET NO. DYS-001675A-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Daniel John THOMPSON et al.	Allowed: October 14, 2022
Application No.: 15/689,705	Confirmation No.: 7883
Filed: August 29, 2017	Art Unit: 3772
For: HAND HELD APPLIANCE	Examiner: N. D. Lucchesi

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Commissioner for Patents
Washington, D.C. 20231

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Respectfully submitted,

FAEGRE DRINKER BIDDLE & REATH LLP

/Christopher P Bruenjes/
Christopher P. Bruenjes, Reg. No. 62,941

Date: November 29, 2022
Customer No. 055694
FAEGRE DRINKER BIDDLE & REATH LLP
1500 K. Street, N.W., Suite 1100
Washington, DC 20005-1209
Tel: (202) 842-8800
Fax: (202) 842-8465

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 22 of 368

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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/N.D.L/	1	3280439		1966-10-25	McCarthy	

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/N.D.L/	1	2008-105454	JP		2008-05-08		Machine Translation	☒
/N.D.L/	2	2015-181947	JP		2015-10-22	Dyson Technology Limited	Corresponds to US 2015/0265022 cited above	☐
	3	45-13287	JP		1970-05-14		Machine Translation	☒

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Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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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]
/N.D.L/	1	Notification of Grounds for Rejection mailed December 10, 2018, directed to JP Application No. 2017-168409; 10 pages	X

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Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 24 of 368

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Attorney Docket Number	42466-21238.00

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☒ 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	/christopher gloria/	Date (YYYY-MM-DD)	2019-08-02
Name/Print	Christopher Gloria	Registration Number	71907

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 25 of 368

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 26 of 368

Electronic Acknowledgement Receipt

EFS ID:	47102487
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Christopher P. Bruenjes/Margit Phillips
Filer Authorized By:	Christopher P. Bruenjes
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	29-NOV-2022
Filing Date:	29-AUG-2017
Time Stamp:	09:47:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	DYS-001675A-US_Request_for_Acknowledgment_of_PTO-SB-08.pdf	577679 a12f0aac1c497e2a33efc8b88326899745bbb533	no	5

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 27 of 368

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Total Files Size (in bytes):	577679

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55694 7590 10/14/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER
LUCCHESI, NICHOLAS D

ART UNIT	PAPER NUMBER
3772	

DATE MAILED: 10/14/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

TITLE OF INVENTION: HAND HELD APPLIANCE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/17/2023

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

55694 7590 10/14/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

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 EFS-Web 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.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

TITLE OF INVENTION: HAND HELD APPLIANCE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	01/17/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
LUCCHESI, NICHOLAS D	3772	132-271000

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) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ 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

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

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.
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.
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. _____

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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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 10/14/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
LUCCHESI, NICHOLAS D	
ART UNIT	PAPER NUMBER
3772	

DATE MAILED: 10/14/2022

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.

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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. 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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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.

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SharkNinja et al. v. Dyson Technology Limited,
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Notice of Allowability	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	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 amendment filed 7/12/22.
   ☐ 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 1-7,9-25,27 and 29-42 . 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 _____.
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 _____.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	**Art Unit**
	NICHOLAS D LUCCHESI	3772

CPC						
Symbol					**Type**	**Version**
A45D	/	2	/	36	F	2013-01-01
A45D	/	1	/	00	I	2013-01-01
A46B	/	15	/	003	I	2013-01-01
A46B	/	5	/	0095	I	2013-01-01
A45D	/	2	/	2457	I	2013-01-01
A45D	/	2	/	30	I	2013-01-01
A45D	/	20	/	12	I	2013-01-01
A46B	/	2200	/	104	A	2013-01-01
A45D	/	2001	/	002	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	39	
/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	06 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

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SharkNinja et al. v. Dyson Technology Limited,
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	**Art Unit**
	NICHOLAS D LUCCHESI	3772

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A45D	/	2	/	36

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	39	
/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	06 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office — Part of Paper No.: 20221006

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	**Art Unit**
	NICHOLAS D LUCCHESI	3772

☐ 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	6	10	18	19		28	28	37						
2	2	10	11	19	20	37	29	29	38						
3	3	11	12	20	21	38	30	30	39						
4	4	12	13	21	22	39	31	31	40						
8	5	13	14	22	23	23	32	35	41						
9	6	14	15	33	24	24	33	32	42						
7	7	15	16	34	25	25	34								
	8	16	17		26	26	35								
5	9	17	18	36	27	27	36								

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	39	
/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	06 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office

Part of Paper No.: 20221006

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SharkNinja et al. v. Dyson Technology Limited,
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

CPC - Searched*		
Symbol	**Date**	**Examiner**
A45D1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12; A46B 5/0095, 15/003	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL
search updated	04/09/2022	NL
search updated	10/06/2022	NL

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.

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor Search	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL
search updated	04/09/2022	NL
search updated	10/06/2022	NL

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 37 of 368

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A45D	1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12	10/06/2022	NL
A46B	5/0095, 15/003	10/06/2022	NL

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L179	317	thompson adj2 daniel.in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L180	0	fairholm adj2 lauren.in.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L181	190	A45D1/28.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L182	132	A45D2/367.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L183	131	A45D6/02.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L184	129	A45D6/04.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L185	111	A45D20/48.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L186	230	A45D20/50.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L187	181	A45D2/36.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L188	157	A45D1/00.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L189	54	A45D2/2457.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L190	7	A45D2/30.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L191	90	A45D2/12.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L192	98	A46B15/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L193	1303	A46B5/0095.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L194	0	A465/0095.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L195	0	A4615/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L196	2595	L181 or L182 or L183 or L184 or L185 or L186 or L187 or L188 or L189 or L190 or L191 or L194 or L195 or L192 or L193	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L197	29	L196 and chamfer	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L198	230	L196 and collar	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L199	343	L196 and protrusion	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
L200	490	L196 and slot	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25

SharkNinja Ex. 1002
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							03:15 PM
L201	2	("20150265022"|"3280439").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/09/25 03:15 PM
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L205	106	("0364956" | "0536802" | "1117021" | "1284792" | "1588241" | "2258844" | "2648757" | "3102941" | "3120598" | "3220421" | "3610258").PN. OR ("3955064").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/09/25 03:15 PM
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L208	140	A45D2/367.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L209	138	A45D6/02.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L210	133	A45D6/04.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L211	123	A45D20/48.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L212	264	A45D20/50.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L213	191	A45D2/36.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L214	172	A45D1/00.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L215	55	A45D2/2457.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
L216	8	A45D2/30.cpc.	(US-PGPUB; USPAT;	OR	OFF	OFF	2021/09/25

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SharkNinja et al. v. Dyson Technology Limited,
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L217	95	A45D2/12.cpc.	(US-PGPUB; USPAT; EPO; JPO)	OR	OFF	OFF	2021/09/25 03:15 PM
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L221	1878	((("Dyson") near3 ("Technology") near3 ("Limited"))).AS,AANM.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/06 03:48 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	1468	A46B5/0095.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:09 PM
N2	113	A46B15/003.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:09 PM
N3	101	A45D2/12.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:09 PM
N4	7	A45D2/30.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:10 PM
N5	54	A45D2/2457.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:10 PM
N6	167	A45D1/00.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:10 PM
N7	183	A45D2/36.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:10 PM
N8	244	A45D20/50.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:10 PM
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N13	204	A45D1/28.cpc.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/10/06 04:11 PM

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BIB DATA SHEET

CONFIRMATION NO. 7883

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
15/689,705	08/29/2017	132	3772	DYS-001675A-US

APPLICANTS

Dyson Technology Limited, Wiltshire, UNITED KINGDOM;

INVENTORS

Daniel John THOMPSON, Bristol, UNITED KINGDOM;
Lauren Elise FAIRHOLM, Toronto, CANADA;

**** CONTINUING DATA ***************************

**** FOREIGN APPLICATIONS ***************************

UNITED KINGDOM 1614825.6 09/01/2016

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

Foreign Priority claimed ☑ Yes ☐ No 35 USC 119(a-d) conditions met ☑ Yes ☐ No Verified and Acknowledged /NICHOLAS D LUCCHESI/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		UNITED KINGDOM	6	40	2

ADDRESS

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209
UNITED STATES

TITLE

HAND HELD APPLIANCE

FILING FEE RECEIVED		
3440	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson et al.
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

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

Dear Commissioner:

In response to the Non-Final Office Action of April 13, 2022 (hereinafter the "Office Action"), please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 10 of this paper.

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is slidably moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot; wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

2. (Original) The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. (Original) The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

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4. (Original) The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

5. (Original) The appliance of claim 1, wherein when the first protrusion is at a predetermined position within the first slot, the actuator returns towards the first position.

6. (Original) The appliance of claim 1, wherein the actuator is biased into the first position.

7. (Original) The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. (Canceled)

9. (Original) The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

10. (Original) The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. (Original) The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed

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in the inner surface and has a closed end defined by a recess formed at the end of the channel.

12. (Original) The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. (Original) The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. (Original) The appliance of claim 13, wherein the second face is curved.

15. (Original) The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. (Original) The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. (Original) The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

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18. (Original) The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

19. (Original) The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

20. (Original) The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. (Original) The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. (Original) The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. (Original) The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

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24. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is slidably moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot, further comprising a user operated button which engages with the actuator.

25. (Original) The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. (Canceled)

27. (Previously Presented) The appliance of claim 41, wherein the chamfer extends from the inner surface towards the outer surface towards the second end of the body.

28. (Canceled)

29. (Previously Presented) The appliance of claim 41, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

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30. (Previously Presented) The appliance of claim 41, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. (Previously Presented) The appliance of claim 41, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

32. (Original) The appliance of claim 1, comprising a second protrusion and a second slot.

33. (Original) The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. (Original) The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. (Original) The appliance of claim 32 wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. (Original) The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

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37. (Original) The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

38. (Original) The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

39. (Original) The appliance of claim 1, wherein the appliance is a hair care appliance.

40. (Original) The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

41. (Previously Presented) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, wherein at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment comprises a

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first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

42. (New) The appliance of claim 1, wherein the first slot causes the attachment to pivot relative to the body as the first protrusion engages with the first slot.

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REMARKS

Claims 1-41 were previously pending in the application. The Office Action allowed claims 27, 29-31, and 41, objected to claims 17, 18, and 20-22, and rejected claims 1-7, 9-16, 19, 23-25, 32-34, 39, and 40. By this Response, Applicant has amended claims 1 and 24 and added claim 42. Accordingly, claims 1-25, 27, and 29-42 are pending.

Examiner Interview

Applicant thanks Examiner Lucchesi for discussing the present application with the undersigned on July 1, 2022. The claim amendments presented herein were generally discussed, and no specific agreement was reached.

Allowable Subject Matter

The Office Action allowed claims 27, 29-31, and 41. The Office Action objected to claims 17, 18, and 20-22 as being dependent upon rejected base claims, but indicated that such claims would be allowable if rewritten in independent form. Applicant appreciates the acknowledgement of the allowable subject matter.

Claim Rejections – 35 U.S.C. § 102

The Office Action rejected claims 1-7, 9-16, 19, 24, 25, 32-34, 39, and 40 under 35 U.S.C. § 102 as allegedly being anticipated by U.S. Pat. 3,955,064 by Demetrio (hereinafter "Demetrio"). Applicant respectfully disagrees. However, Applicant has amended the claims to expedite prosecution.

Claim 1 has been amended to recite "[a] handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first

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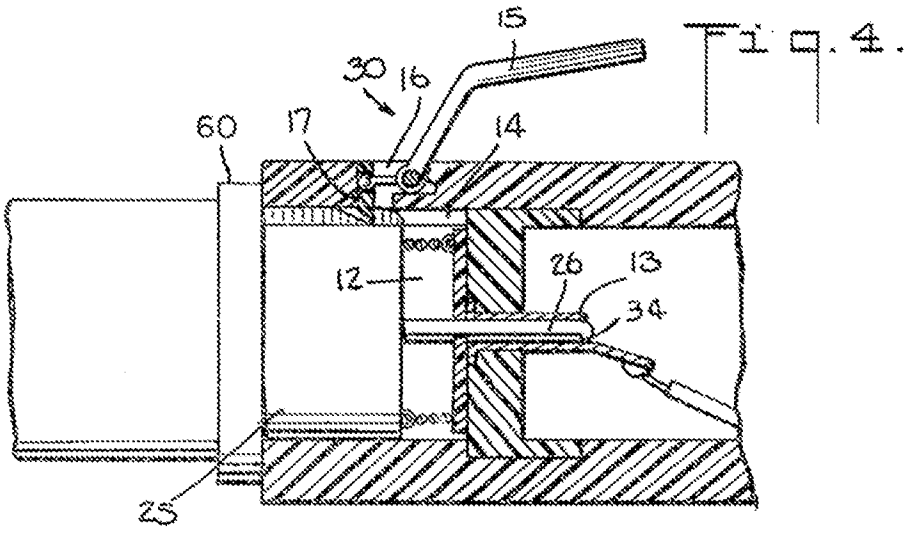
slot, wherein the actuator has a first position and a second position and the actuator is *slidably* moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot[.]" Support for amended claim 1 is at least provided by para. [0069] and FIGS. 1a and 1b of the present application.

Regarding claim 1, the Office Action stated:

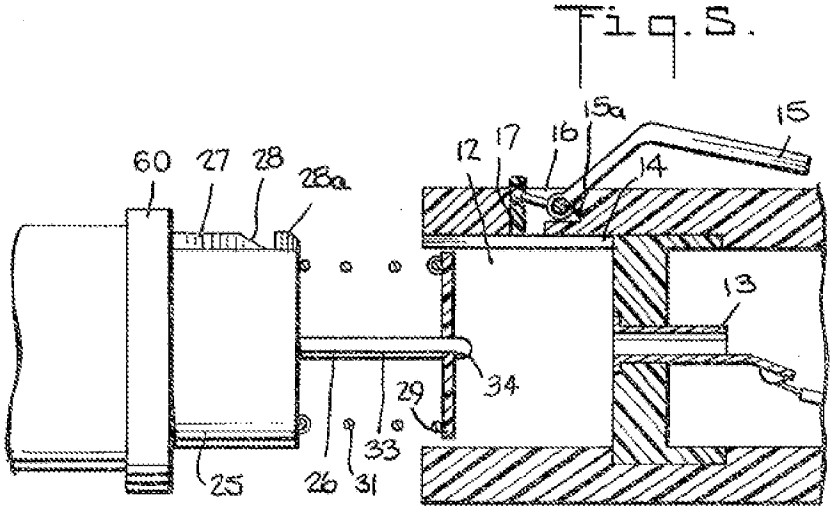
> [Demetrio discloses] a handheld appliance (fig. 2) having a body 10 and an attachment 20, the body 10 comprising an attachment mechanism having a first slot 12 and an actuator 15, the attachment 20 comprising a first protrusion 25 configured to engage with the first slot 12, wherein the ***actuator has a first position (fig. 4) and a second position (fig. 5) and the actuator is moved from the first position (fig. 4) toward the second position (fig. 5) in a longitudinal direction of the body (note how actuator 15 moves from left to right, in figs 4 and 5)*** as the first protrusion 25 engages with the first slot 12.

Office Action, pp. 2-3 (emphasis added).

FIGS. 4 and 5 of Demetrio are reproduced below.



Demetrio, FIG. 4.



Demetrio, FIG. 5.

Demetrio's "actuator" (15) does not "*slidably* [move] from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot," as recited in claim 1. Furthermore, Demetrio does not otherwise disclose or suggest an actuator as recited in claim 1.

Independent claim 24 has been amended in a similar manner to claim 1.

For at least these reasons, Applicant respectfully requests withdrawal of the rejection of claims 1, 24, and the claims depending therefrom under 35 U.S.C. § 102 as allegedly being anticipated by Demetrio.

New Claim

Claim 42 has been added. Claim 42 depends from claim 1 and recites "the first slot causes the attachment to pivot relative to the body as the first protrusion engages with the first slot." Claim 42 is as least supported by FIGS. 1a and 1b of the present application.

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Examination Comment

Applicant respectfully reminds the Examiner of the requirements for speedy and just determination of the issues involved in examination, and for relying upon the "best" prior art references of record. "In selecting the references to be used in rejecting the claims, the examiner should carefully compare the references with one another and with the applicant's disclosure to avoid an unnecessary number of rejections over similar references. ***The examiner is not called upon to cite all references that may be available, but only the "best."*** (See 37 CFR 1.104(c).) Multiplying references, any one of which is as good as, but no better than, the others, adds to the burden and cost of prosecution and should therefore be avoided. The examiner must fully consider all the prior art references cited in the application, including those cited by the applicant in a properly submitted Information Disclosure Statement." MPEP § 904.03 (emphasis added). "In rejecting claims for want of novelty or for obviousness, ***the examiner must cite the best references at his or her command***." 37 CFR § 1.104(c) (emphasis added).

In previous Office Actions, the "best" prior art references seemingly have not been relied upon. For example, in the Office Action of September 29, 2021, claim 1 was rejected in view of U.S. Patent No. 3,280,439 to McCarthy (hereinafter "McCarthy"). In Applicant's response submitted on December 22, 2021, claim 1 was amended to include the features of a dependent claim that was indicated as reciting allowable subject matter. However, amended claim 1 was subsequently rejected over Demetrio, seemingly indicating that McCarthy was not the "best" reference available because Demetrio, which Applicant listed on an Information Disclosure Statement (PTO/SB/08A/B) considered by the Examiner on September 14, 2020, is allegedly more relevant to claim 1.

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Final Remarks

Applicant respectfully submits that claims 1-25, 27, and 29-42 are in condition for allowance. Such action is earnestly solicited.

In the event Applicant has overlooked the need for an extension of time or payment of fee, Applicant hereby petitions therefor and authorizes that any charges be made to Deposit Account No. 50-0573, Faegre Drinker Biddle & Reath LLP.

If any questions concerning this application should arise, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

/steven c wiemer/

Steven C. Wiemer
Reg. No. 62,897

Agent for Applicant

Faegre Drinker Biddle & Reath LLP
Telephone: 303-607-3730

Date: July 12, 2022

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SharkNinja et al. v. Dyson Technology Limited,
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Electronic Acknowledgement Receipt

EFS ID:	46166781
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Steven C. Wiemer/Margit Phillips
Filer Authorized By:	Steven C. Wiemer
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	12-JUL-2022
Filing Date:	29-AUG-2017
Time Stamp:	11:53:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		DYS-001675A-US_amendment.pdf	316463 19b563baf1968c256e7aaabe981594c550500ec0	yes	14

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
	Claims	2	9
	Applicant Arguments/Remarks Made in an Amendment	10	14
Warnings:			
Information:			
	Total Files Size (in bytes):	316463	

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 a 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/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/689,705	Filing Date 08/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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 $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ 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	07/12/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 39	Minus	** 41	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DAWN BREWER/
*** 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 07/11/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
LUCCHESI, NICHOLAS D	

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
07/11/2022	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):

DBRIPDocket@faegredrinker.com

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 60 of 368

Applicant-Initiated Interview Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.		
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (First Inventor to File) Status Yes	Page 1 of 2

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
NICHOLAS D LUCCHESI	Primary Examiner	Telephonic
STEVEN WIEMER	Attorney	

Date of Interview: 01 July 2022

Issues Discussed:

35 U.S.C. 102

Discussion of Demetrio et al 3955064. Applicant's representative presented arguments regarding the limitation in claim 1 of the movement of the actuator from the first position toward the second position, along a longitudinal direction of the body. Applicant's representative argued that Demetrio et al does not disclose this limitation, since the actuator of Demetrio et al pivots. The examiner explained that the lever portion of the actuator of Demetrio et al appears to move from left to right, or longitudinally.

Applicant's representative also presented arguments regarding the limitation in claim 1 of the first slot extending both radially around and axially along the body. The examiner explained that the slot of the collar of Demetrio et al was being equated with the claimed first slot, and that the slot of the Demetrio et al collar appears to extend radially from it's longitudinal axis, and also axially along the body.

Applicant's representative suggested that an amendment to claim 1 that specifies that the actuator movement is a sliding motion, would obviate the rejection over Demetrio et al. The examiner agreed that such a limitation would appear to obviate the rejection over Demetrio et al. Applicant's representative also suggested that an amendment that specifies the shape of the first slot, in accordance with the instant figures, might be presented as well. The examiner agreed that the slot of Demetrio et al does not take the shape of the first slot as disclosed in the instant drawings.

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 61 of 368

Applicant-Initiated Interview Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.		
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (First Inventor to File) Status Yes	Page 2 of 2

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

Jun 24 2022

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Steven C. Wiemer

S-signature:
/steven c wiemer/

Registration Number:
62897

U.S. Application Number:
15689705

Confirmation Number:
7883

E-mail Address:
steven.wiemer@faegredrinker.com

Phone Number:
+1 3036073730

Proposed Time of Interview:
6-30-2022 11:00 AM ET

Alternative Proposed Time(s) of Interview:
6-30-2022 10:00 AM ET

Alternative Proposed Time(s) of Interview:
7-1-2022 11:00 AM ET

Prefered Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.

Topic for Discussion:
Office Action and potential amendments

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 63 of 368

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 04/13/2022

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
LUCCHESI, NICHOLAS D	

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
04/13/2022	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):

DBRIPDocket@faegredrinker.com

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 64 of 368

Office Action Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 12/22/21.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-7,9-25,27 and 29-41 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☑ Claim(s) 27,29-31 and 41 is/are allowed.

7) ☑ Claim(s) 1-7,9-16,19,23-25 and 32-40 is/are rejected.

8) ☑ Claim(s) 17-18 and 20-22 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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SharkNinja et al. v. Dyson Technology Limited,
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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Withdrawal Of Indication of Allowability

The previous indication of allowability in the prior office action has been withdrawn in view of a review of the prior art of record. A new non-final action on the merits follows.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-7,9-16,19,24 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Demetrio et al 3955064 (previously cited).

With regard to claim 1, Demetrio et al disclose a handheld appliance (fig.2) having a body 10 and an attachment 20, the body 10 comprising an attachment mechanism having a first slot 12 and an actuator 15, the attachment 20 comprising a first protrusion 25 configured to engage with the first slot 12, wherein the actuator has a first position (fig. 4) and a second position (fig. 5) and the actuator is

moved from the first position (fig. 4) toward the second position (fig. 5) in a longitudinal direction of the body (note how actuator 15 moves from left to right, in figs 4 and 5) as the first protrusion 25 engages with the first slot 12. Note that the body 10 extends along a longitudinal axis and the first slot 12 extends both radially around the body 10 and axially along the body 10.

With regard to claim 2, note how in the first position (fig. 4), the actuator 15 at least partially obscures the first slot 12.

With regard to claim 3, note that the actuator 15 comprises a surface 17 (fig. 5) that interacts with the first protrusion 25 when the first protrusion 25 engages with the first slot 12.

With regard to claim 4, note how the surface 17 is configured to at least partially define the first slot 12 at or near the second position. See fig. 5, where the surface 17 is raised, to help define the first slot 12, by not obstructing it.

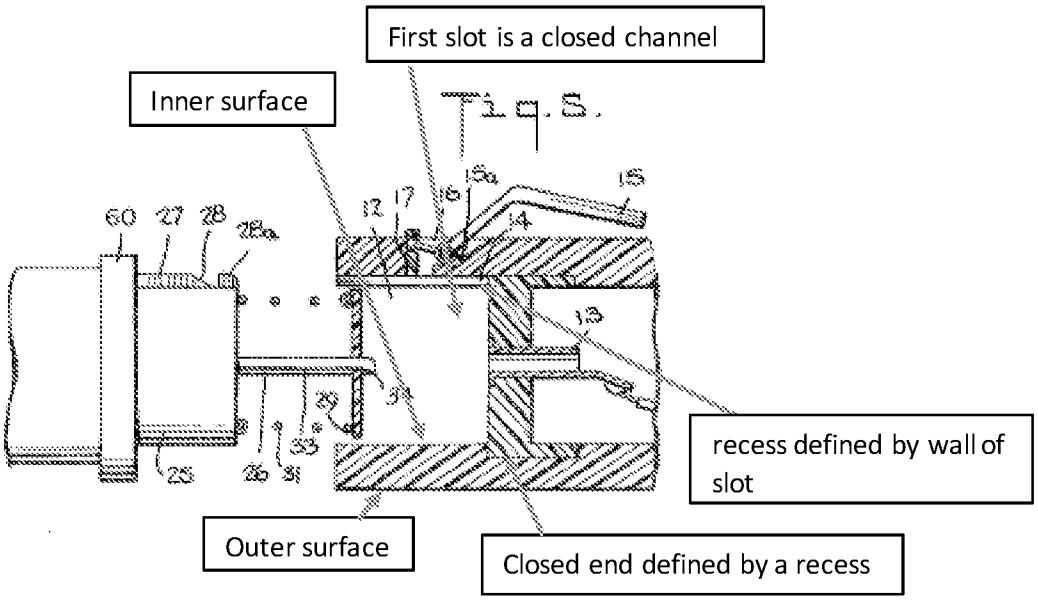
With regard to claims 5 and 6, note that when the first protrusion 25 is at a predetermined position within the first slot 12 (fig. 4), the actuator returns towards the first position, due to the actuator being biased. See col. 4, lines 38-55.

With regard to claim 7, note that the actuator 15 retains the attachment 20 on the body 10.

With regard to claim 9, note that the first protrusion 25 comprises a first face 28a, for engagement with the actuator 15.

With regard to claim 10, note that the first face 28a engages with the surface 17 of the actuator 15.

With regard to claim 11, note that body 10 comprises a wall having an inner surface and outer surface (see fig. 5), with the first slot 12 being a closed channel in the inner surface and has a closed end defined by a recess 14 formed at the end of the channel. See annotated figure below.



With regard to claim 12, note that the recess 14 is defined by a wall of the first slot.

With regard to claim 13, note that protrusion 25 comprises a second face (the exterior perimeter wall for engagement with the wall of the first slot 12.

With regard to claim 14, note that the second face (the exterior perimeter wall of protrusion 25) is curved. See fig. 2, which shows the corners of the protrusion 25 being rounded (curved).

With regard to claim 15, note that actuator 15 comprises a second surface (the rear surface opposite surface 17), which interacts with the first protrusion 25 when the first protrusion 25 engages with the recess 14.

With regard to claim 16, note that the body 10 has a first end 50 and a second end (opposite the end 50), and the attachment mechanism is adjacent the second end. See fig. 5.

With regard to claim 19, note the attachment 20 comprises a collar 60 extending around the attachment 20, and the first protrusion 27 extends from the collar 60. See fig. 5.

With regard to claim 24, note that the actuator 15 has a user operated button (the top flat portion of the actuator) that engages with the actuator 15.

With regard to claim 25, note that actuation of the button (the top flat portion of the actuator 15) moves the actuator 15 from the first position to the second position to facilitate removal of an attachment from the body.

With regard to claim 32, note second protrusion 33 and second slot 13.

With regard to claim 33, note that the second protrusion 33 and second slot 13 are radially spaced from the first protrusion 25 and the first slot 12.

With regard to claim 34, note that the second protrusion 33 is configured to cooperate with the second slot 13, but not the first slot 12.

With regard to claims 39 and 40, note that the appliance is a hair care appliance, in the form of a hot styling appliance.

Allowable Subject Matter

Claims 17,18,20-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 27,29-31,41 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS D LUCCHESI whose telephone number is (571)272-4977. The examiner can normally be reached M-F 800-430.

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, Jacqueline Johanas can be reached on 571-270-5085. 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.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

Notice of References Cited	Application/Control No. 15/689,705	Applicant(s)/Patent Under Reexamination THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160199612-A1	07-2016	FOOTE; Roger Mervyn Lloyd	A61M16/0875	128/202.27
*	B	US-5346394-A	09-1994	DeStefanis; Mario P.	A61C13/0028	433/32
*	C	US-3771186-A	11-1973	Moret; Michel A.	A61C17/028	15/22.1
*	D	US-20150209125-A1	07-2015	Fattori; Joseph E.	A61C17/225	15/22.1
*	E	US-5464301-A	11-1995	Kramer; Joel M.	F16D1/108	403/325
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

CPC - Searched*		
Symbol	**Date**	**Examiner**
A45D1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12; A46B 5/0095, 15/003	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL
search updated	04/09/2022	NL

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.

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor Search	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL
search updated	04/09/2022	NL

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 73 of 368

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"3280439".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 23:07
L2	1	"20150265022".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 23:07
L3	1	"6029307".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 23:08
L4	1	"4365426".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 23:11
L5	2	"9520339".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 23:19
S220	327	thompson adj2 daniel.in.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S221	0	fairholm adj2 lauren.in.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S222	199	A45D1/28.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S223	137	A45D2/367.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S224	131	A45D6/02.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S225	133	A45D6/04.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S226	116	A45D20/48.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34

S227	239	A45D20/50.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S228	183	A45D2/36.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S229	162	A45D1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S230	54	A45D2/2457.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S231	7	A45D2/30.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S232	101	A45D2/12.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S233	103	A46B15/003.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S234	1,383	A46B5/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S235	0	A465/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
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S237	2,718	S222 or S223 or S224 or S225 or S226 or S227 or S228 or S229 or S230 or S231 or S232 or S235 or S236 or S233 or S234	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S238	30	S237 and chamfer	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S239	249	S237 and collar	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S240	360	S237 and protrusion	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S241	519	S237 and slot	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34

S242	2	("20150265022" | "3280439").PN.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S243	8	(US-0284856-$ | US-1131427-$ | US-1614825-$ | US-3955064-$ | US-4034201-$ | US-4365426-$ | US-4851641-$ | US-20050284856-$).DID.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S244	11	(US-0025106-$ | US-0105274-$ | US-0152272-$ | US-0202545-$ | US-6029307-$ | US-6067724-$ | US-6502585-$ | US-20080105274-$ | US-20080202545-$ | US-20120152272-$ | US-20130025106-$).DID.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S245	25	("3890984" | "3986272").PN. OR ("6067724").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/04/08 13:34
S246	111	("0364956" | "0536802" | "1117021" | "1284792" | "1588241" | "2258844" | "2648757" | "3102941" | "3120598" | "3220421" | "3610258").PN. OR ("3955064").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/04/08 13:34
S247	1	"20160278899".pn.	US-PGPUB; USPAT	OR	OFF	2022/04/08 13:34
S248	212	A45D1/28.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S249	145	A45D2/367.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S250	138	A45D6/02.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S251	137	A45D6/04.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S252	129	A45D20/48.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S253	276	A45D20/50.cpc.	US-PGPUB;	OR	OFF	2022/04/08 13:34

			USPAT; EPO; JPO			
S254	193	A45D2/36.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S255	178	A45D1/00.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S256	55	A45D2/2457.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S257	8	A45D2/30.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S258	107	A45D2/12.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S259	107	A46B15/003.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S260	1,429	A46B5/0095.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:34
S261	942	((("Dyson") near3 ("Technology") near3 ("Limited"))).AS,AANM.	USPAT	OR	OFF	2022/04/08 13:37
S262	24	S261 and actuator and protrusion and slot	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 13:53
S263	6	(hand adj held) and attachment and (slot near (radial or radially)) and button and actuator and disengage	US-PGPUB; USPAT	OR	OFF	2022/04/08 14:09
S264	62	handle and attachment and (slot near (radial or radially)) and button and actuator and disengage	US-PGPUB; USPAT	OR	OFF	2022/04/08 14:10
S265	2	vaccum and handle and attachment and ((radial or circumferential) near slot) and actuator	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:14

S266	5	vaccum and handle and attachment and ((radial or circumferential) same slot) and actuator	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:15
S267	127	appliance and handle and attachment and ((radial or circumferential) same slot) and actuator	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:16
S268	3,749	handle and attachment and ((radial or circumferential) same slot) and actuator	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:34
S269	4	S268 and toothbrush	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:34
S270	3,244	handle and attachment and ((radial or circumferential) same slot) and button	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:35
S271	0	S223 and toothbrush	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:36
S272	10,434	handle and attachment and ((radial or circumferential) same slot)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:36
S273	30	S272 and toothbrush	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:36
S274	144	S272 and hygiene	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 14:40
S275	10,434	handle and attachment and ((radial or circumferential) same slot)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 15:53
S276	2,047	S275 and vacuum	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 15:53
S277	110	S275 and (vacuum adj cleaner)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 15:53

S278	764	S276 and protrusion	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:06
S279	30	S275 and toothbrush	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:22
S280	1,364	S275 and nozzle	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:23
S281	339	S280 and protrusion	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:23
S282	1	"6067724".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:54
S283	1	"3955064".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2022/04/08 16:55

EAST Search History (Interference)

<This search history is empty>

4/9/2022 12:23:28 AM
C:\Users\nlucchesi\Documents\EAST\Workspaces\15689705.wsp

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/689,705	Filing Date 08/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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 $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ 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	12/22/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 38	Minus	** 41	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/JEFFERY L OLSEN/
*** 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

AMENDMENT AND RESPONSE UNDER 37 C.F.R. § 1.111

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

Dear Commissioner:

In response to the Non-Final Office Action of September 29, 2021 (hereinafter the "Office Action"), the period for response to which runs through December 29, 2021, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 10 of this paper.

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 81 of 368

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot; wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

2. (Original) The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. (Original) The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

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4. (Original) The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

5. (Original) The appliance of claim 1, wherein when the first protrusion is at a predetermined position within the first slot, the actuator returns towards the first position.

6. (Original) The appliance of claim 1, wherein the actuator is biased into the first position.

7. (Original) The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. (Canceled)

9. (Original) The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

10. (Original) The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. (Original) The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed

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in the inner surface and has a closed end defined by a recess formed at the end of the channel.

12. (Original) The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. (Original) The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. (Original) The appliance of claim 13, wherein the second face is curved.

15. (Original) The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. (Original) The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. (Original) The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

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SharkNinja et al. v. Dyson Technology Limited,
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18. (Original) The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

19. (Original) The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

20. (Original) The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. (Original) The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. (Original) The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. (Original) The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

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SharkNinja et al. v. Dyson Technology Limited,
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24. (Currently Amended) ~~The appliance of claim 1,~~ A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot, further comprising a user operated button which engages with the actuator.

25. (Original) The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. (Canceled)

27. (Previously Presented) The appliance of claim 41, wherein the chamfer extends from the inner surface towards the outer surface towards the second end of the body.

28. (Canceled)

29. (Previously Presented) The appliance of claim 41, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

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30. (Previously Presented) The appliance of claim 41, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. (Previously Presented) The appliance of claim 41, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

32. (Original) The appliance of claim 1, comprising a second protrusion and a second slot.

33. (Original) The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. (Original) The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. (Original) The appliance of claim 32 wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. (Original) The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

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37. (Original) The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

38. (Original) The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

39. (Original) The appliance of claim 1, wherein the appliance is a hair care appliance.

40. (Original) The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

41. (Previously Presented) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, wherein at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment comprises a

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first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

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REMARKS

Claims 1-25, 27, and 29-41 were previously pending in the application. The Office Action allowed claims 27[1], 29-31, and 41, objected to claims 8, 24, 25, and 36-38, and rejected claims 1-7, 9-23, 32-35, and 39-40. By this Response, Applicant has amended claims 1 and 24 and canceled claim 8. No claims are added. Accordingly, claims 1-7, 9-25, 27, and 29-41 are pending.

Allowable Subject Matter

The Office Action allowed claims 27, 29-31, and 41. The Office Action objected to claims 8, 24, 25, and 36-38 as being dependent upon rejected base claims, but indicated that such claims would be allowable if rewritten in independent form. Applicant appreciates the acknowledgement of the allowable subject matter.

Applicant has rewritten claim 24 in independent form. Accordingly, claim 24 and the claim depending therefrom (i.e., claim 25) are in condition for allowance.

Claim Rejections – 35 U.S.C. § 102

The Office Action rejected claims 1-7, 9-19, 32-35, 39, and 40 under 35 U.S.C. § 102 as allegedly being anticipated by U.S. Patent No. 3,280,439 (hereinafter "McCarthy"). Applicant respectfully disagrees. Nevertheless, Applicant has amended claim 1 to expedite prosecution. Specifically, Applicant has amended claim 1 to incorporate the features of dependent claim 8, which was identified as reciting allowable subject matter. Claim 8 has been canceled.

For at least the above reasons, Applicant respectfully requests withdrawal of the rejection of claim 1 and the claims depending therefrom (i.e., claims 2-7, 9-19, 32-35, 39, and 40) under 35 U.S.C. § 102 as allegedly being anticipated by McCarthy.

[1] The Summary sheet of the Office Action incorrectly listed claim 37 as being allowed instead of claim 27.

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Claim Rejections – 35 U.S.C. § 103

The Office Action rejected claims 20-23 under 35 U.S.C. § 103 as allegedly being unpatentable over McCarthy. Applicant respectfully disagrees. Nevertheless, claims 20-23 depend from claim 1, which is distinguished from McCarthy for at least the above reasons. Accordingly, claims 20-23 are distinguished from McCarthy at least due to the chain of dependency. For at least these reasons, Applicant respectfully requests withdrawal of the rejection of claims 20-23 under 35 U.S.C. § 103 as allegedly being unpatentable over McCarthy.

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Final Remarks

Applicant respectfully submits that claims 1-7, 9-25, 27, and 29-41 are in condition for allowance. Such action is earnestly solicited.

In the event Applicant has overlooked the need for an extension of time or payment of fee, Applicant hereby petitions therefor and authorizes that any charges be made to Deposit Account No. 50-0573, Faegre Drinker Biddle & Reath LLP.

If any questions concerning this application should arise, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

/steven c wiemer/

Steven C. Wiemer
Reg. No. 62,897

Agent for Applicant

Faegre Drinker Biddle & Reath LLP
Telephone: 303-607-3730

Date: December 22, 2021

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 92 of 368

Electronic Acknowledgement Receipt

EFS ID:	44584690
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Steven C. Wiemer/Margit Phillips
Filer Authorized By:	Steven C. Wiemer
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	22-DEC-2021
Filing Date:	29-AUG-2017
Time Stamp:	10:32:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		DYS-001675A-US_amendment.pdf	47361 77b67af989ad880b3362c347d26c21b1c713d110	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	9
	Applicant Arguments/Remarks Made in an Amendment	10	12
Warnings:			
Information:			
	Total Files Size (in bytes):	47361	

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 a 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.

amendment approved for entry.

/N.L./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

SUPPLEMENTAL AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

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

Dear Commissioner:

In response to the Final Office Action of April 26, 2021 (hereinafter the "Office Action") and in view of the Advisory Action of August 6, 2021 (hereinafter the "Advisory Action"), please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 95 of 368

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	317	thompson adj2 daniel.in.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L2	0	fairholm adj2 lauren.in.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L3	190	A45D1/28.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L4	132	A45D2/367.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L5	131	A45D6/02.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L6	129	A45D6/04.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L7	111	A45D20/48.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L8	230	A45D20/50.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L9	181	A45D2/36.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L10	157	A45D1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L11	54	A45D2/2457.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L12	7	A45D2/30.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L13	90	A45D2/12.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15

L14	98	A46B15/003.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L15	1,303	A46B5/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L16	0	A465/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L17	0	A4615/003.cpc.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L18	2,595	L3 or L4 or L5 or L6 or L7 or L8 or L9 or L10 or L11 or L12 or L13 or L16 or L17 or L14 or L15	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L19	29	L18 and chamfer	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L20	230	L18 and collar	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L21	343	L18 and protrusion	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L22	490	L18 and slot	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L23	2	("20150265022" | "3280439").PN.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L24	8	(US-0284856-$ | US-1131427-$ | US-1614825-$ | US-3955064-$ | US-4034201-$ | US-4365426-$ | US-4851641-$ | US-20050284856-$).DID.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L25	11	(US-0025106-$ | US-0105274-$ | US-0152272-$ | US-0202545-$ | US-6029307-$ | US-6067724-$ | US-6502585-$ | US-20080105274-$ | US-20080202545-$ | US-20120152272-$ | US-20130025106-$).DID.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L26	25	("3890984" | "3986272").PN. OR ("6067724").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/25 15:15
L27	106	("0364956" | "0536802" | "1117021" | "1284792" | "1588241" | "2258844" | "2648757" | "3102941" | "3120598" |	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/25 15:15

		"3220421" | "3610258").PN. OR ("3955064").URPN.				
L28	1	"20160278899".pn.	US-PGPUB; USPAT	OR	OFF	2021/09/25 15:15
L29	203	A45D1/28.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L30	140	A45D2/367.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L31	138	A45D6/02.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L32	133	A45D6/04.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L33	123	A45D20/48.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L34	264	A45D20/50.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L35	191	A45D2/36.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L36	172	A45D1/00.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L37	55	A45D2/2457.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L38	8	A45D2/30.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L39	95	A45D2/12.cpc.	US-PGPUB;	OR	OFF	2021/09/25 15:15

			USPAT; EPO; JPO			
L40	102	A46B15/003.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15
L41	1,343	A46B5/0095.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/09/25 15:15

EAST Search History (Interference)

<This search history is empty>

9/25/2021 3:41:51 PM
C:\Users\nlucchesi\Documents\EAST\Workspaces\15689705.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 09/29/2021

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
LUCCHESI, NICHOLAS D	

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
09/29/2021	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):

DBRIPDocket@faegredrinker.com

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IPR2024-00219 Page 100 of 368

Office Action Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 8/24/21.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-25,27 and 29-41 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☑ Claim(s) 29-31,37 and 41 is/are allowed.

7) ☑ Claim(s) 1-7,9-23,32-35 and 39-40 is/are rejected.

8) ☑ Claim(s) 8,24-25 and 36-38 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Withdrawal Of Finality Of Previous Office Action

After a further review of the prior art, the finality of the previous office action has been withdrawn. A new non final action on the merits follows.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-7,9-19,32-35,39,40 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by McCarthy 3280439 (cited by applicant).

With regard to claim 1, McCarthy discloses a handheld appliance having a body 58 and an attachment 56, the body comprising an attachment mechanism 60 comprising a first slot 72 and an

actuator 74, the attachment 49 comprising a first protrusion 54 configured to engage with the first slot 72, wherein the actuator 74 has a first position (fig. 4) and a second position (fig. 5), and the actuator 74 is moved from the first position (fig. 4) to the second position (fig. 5) in a longitudinal direction of the body 58 as the first protrusion 54 engages with the first slot 72.

With regard to claim 2, note how the actuator 74 at least partially obscures the first slot 72 when in the first position. See surface 94 in fig. 4 and 6.

With regard to claim 3, note that the actuator 74 comprises a surface 64 which interacts with the first protrusion 54 when the first protrusion 54 engages with the first slot 72.

With regard to claim 4, note that the surface 64 at least partially defines the first slot 72 at the second position (fig. 5).

With regard to claim 5, note that when the first protrusion 54 is at a predetermined position within the first slot 72, the actuator returns towards the first position (fig. 5).

With regard to claim 6, note that the actuator 74 is biased into the first position via spring 76. See figs 4 and 6.

With regard to claim 7, note that the actuator 74 retains the attachment 49 on body 58. See fig. 6.

With regard to claim 9, note that the first protrusion 54 comprises a first face (the upper portion of the outer circumference of the pin) for engagement with the actuator 74.

With regard to claim 10, note that the first face (the outer circumference of the pin 54) engages with the surface 64 of the actuator 74.

With regard to claim 11, note that the body 58 comprises a wall (the wall of element 60, fig. 5) having an outer (outer circumference) surface and an inner (inner circumference) surface, wherein the first slot 72 is a closed channel formed in the inner surface (the slot 72 is formed in both the inner and

outer surfaces of wall element 60), and has a closed end 68 defined by a recess 66 formed at the end of the channel.

With regard to claim 12, note that the recess 66 is defined by a wall of the first slot 72.

With regard to claim 13, note that the first protrusion 54 comprises a second face (the lower face of the outer circumference of pin 54) for engagement of the wall of the first slot 72.

With regard to claim 14, note that the second face (the lower face of the outer circumference of pin 54) is curved.

With regard to claim 15, note that the actuator 74 comprises a second surface 70 which interacts with the first protrusion 54 when the first protrusion 54 engages with the recess 72. See fig. 5.

With regard to claim 16, note that the body 58 has a first end 88 (fig. 5) and a second end (the opposite end) and the attachment mechanism 60 is adjacent the second end.

With regard to claims 17 and 18, note that body 58 comprises a wall 60 having an outer surface (the outer circumference) and an inner surface (the inner circumference) and wherein at the second end, the wall comprises a chamfer 94 extending around the inner surface. See fig. 5. Note how the chamfer 94 extends from the inner surface toward the outer surface (slopes from the inner surface toward the outer surface).

With regard to claim 19, note that the attachment 56 comprises a collar 50 extending around the attachment 56 (fig. 5) and the first protrusion 54 extends from the collar 50.

With regard to claims 32-34 note that McCarthy discloses a second protrusion and a second slot (just below reference numeral 49 in fig. 5) which are radially spaced from first protrusion 54 and first slot 72. With regard to claim 34, note that the second protrusion (the pin just below reference numeral 49) cooperates with the second slot (in which it resides), but not the first slot 72.

With regard to claim 35, note that McCarthy discloses a third protrusion 82 and a fourth protrusion 86 (fig. 5) along with a third slot (which holds protrusion 82) and a fourth slot (which holds protrusion 86).

With regard to claims 39 and 40, these claims merely recite functional language and do not further recite structural elements. Thus, it is held that the appliance of McCarthy could be referred to as a "hair care" appliance or a "hot styling" appliance.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 20-23 are rejected under 35 U.S.C. 103 as being unpatentable over McCarthy 3280439.

With regard to claim 20, McCarthy discloses a chamfer 96 on the body 58, discloses the attachment 49 having a first (righthand) end and a second (lefthand) end, but does not disclose a chamfer at the distal end of the collar that extends radially outwards and towards the second end of the attachment and engages the chamfer 96 of the body.

It would have been obvious to one skilled in the art to include a chamfer on the inside of the distal end of the collar 50 of McCarthy, extending from the collar radially outwards and towards the

second (lefthand) end of the attachment, if one wished for a similar chamfer on the collar to allow the chamfer 96 of the body to more easily engage with the collar 50 of McCarthy.

Allowable Subject Matter

Claims 41,27,29,30,31 are allowed.

Claims 8,24,25,36-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS D LUCCHESI whose telephone number is (571)272-4977. The examiner can normally be reached on M-F 800-430.

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, Jacqueline Johanas can be reached on 571-270-5085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact

the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

CPC - Searched*		
Symbol	Date	Examiner
A45D1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12; A46B 5/0095, 15/003	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL

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.

Search Notes		
Search Notes	Date	Examiner
Inventor Search	09/14/2020	NL
search updated	04/21/2021	NL
search updated	09/25/2021	NL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

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IPR2024-00219 Page 108 of 368

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

SUPPLEMENTAL AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

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

Dear Commissioner:

In response to the Final Office Action of April 26, 2021 (hereinafter the "Office Action") and in view of the Advisory Action of August 6, 2021 (hereinafter the "Advisory Action"), please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot.

2. (Original) The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. (Original) The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

4. (Original) The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

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5. (Original) The appliance of claim 1, wherein when the first protrusion is at a predetermined position within the first slot, the actuator returns towards the first position.

6. (Original) The appliance of claim 1, wherein the actuator is biased into the first position.

7. (Original) The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. (Original) The appliance of claim 1, wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

9. (Original) The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

10. (Original) The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. (Original) The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed in the inner surface and has a closed end defined by a recess formed at the end of the channel.

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12. (Original) The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. (Original) The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. (Original) The appliance of claim 13, wherein the second face is curved.

15. (Original) The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. (Original) The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. (Original) The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

18. (Original) The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

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19. (Original) The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

20. (Original) The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. (Original) The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. (Original) The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. (Original) The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

24. (Original) The appliance of claim 1, further comprising a user operated button which engages with the actuator.

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25. (Original) The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. (Canceled)

27. (Currently Amended) The appliance of claim [[26]] 41, wherein the chamfer extends from the inner surface towards the outer surface towards the second end of the body.

28. (Canceled)

29. (Currently Amended) The appliance of claim [[28]] 41, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

30. (Currently Amended) The appliance of claim [[28]] 41, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. (Currently Amended) The appliance of claim [[28]] 41, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

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32. (Original) The appliance of claim 1, comprising a second protrusion and a second slot.

33. (Original) The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. (Original) The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. (Original) The appliance of claim 32 wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. (Original) The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

37. (Original) The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

38. (Original) The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

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39. (Original) The appliance of claim 1, wherein the appliance is a hair care appliance.

40. (Original) The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

41. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, wherein at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment comprises a first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

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REMARKS

Claims 1-41 were previously pending in the application. The Office Action allowed claims 1-25 and 32-40, objected to claims 28-31, and rejected claims 26, 27, and 41. By this Response, Applicant has amended claims 27, 29-31, and 41 and canceled claims 26 and 28. Accordingly, claims 1-25, 27, and 29-41 are pending.

Allowable Subject Matter

The Office Action allowed claims 1-25 and 32-40. The Office Action objected to claims 28-31 as being dependent upon rejected base claims, but indicated that such claims would be allowable if rewritten in independent form. Applicant appreciates the acknowledgement of the allowable subject matter. As described below, Applicant has amended independent claim 41 to include the features of allowable dependent claim 28 and intervening claim 26, which have been canceled. With this amendment, all of the pending claims are in condition for allowance.

Claim Rejections – 35 U.S.C. § 102

The Office Action rejected claims 41, 26, and 27 under 35 U.S.C. § 102 as allegedly being anticipated by GB 1131427 (hereinafter "GB 427"). Applicant respectfully disagrees. However, Applicant has amended the claims to expedite prosecution.

Independent claim 41 has been amended to include the features of now-canceled dependent claims 26 and 28, the latter of which the Office Action identified as reciting allowable subject matter.

For at least this reason, Applicant respectfully requests withdrawal of the rejection of claim 41 and the claims depending therefrom (that is, claims 27) under 35 U.S.C. § 102 as allegedly being anticipated by GB 427.

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Final Remarks

Applicant respectfully submits that claims 1-25, 27, and 29-41 are in condition for allowance. Such action is earnestly solicited.

In the event Applicant has overlooked the need for an extension of time or payment of fee, Applicant hereby petitions therefor and authorizes that any charges be made to Deposit Account No. 50-0573, Faegre Drinker Biddle & Reath LLP.

If any questions concerning this application should arise, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

/steven c wiemer/

Steven C. Wiemer
Reg. No. 62,897

Agent for Applicant

Faegre Drinker Biddle & Reath LLP
Telephone: 303-607-3730

Date: August 24, 2021

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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PTO/AIA/22 (10-20)
Approved for use through 11/30/2020. 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 displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	Docket Number (Optional) DYS-001675A-US
Application Number 15/689,705	Filed August 29, 2017
For HAND HELD APPLIANCE	
Art Unit 3772	Examiner N. D. Lucchesi

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
[x] One month (37 CFR 1.17(a)(1))	$220	$110	$55	$ 220.00
[ ] Two months (37 CFR 1.17(a)(2))	$640	$320	$160	$
[ ] Three months (37 CFR 1.17(a)(3))	$1,480	$740	$370	$
[ ] Four months (37 CFR 1.17(a)(4))	$2,320	$1,160	$580	$
[ ] Five months (37 CFR 1.17(a)(5))	$3,160	$1,580	$790	$

[ ] Applicant asserts small entity status. See 37 CFR 1.27.

[ ] Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

[ ] A check in the amount of the fee is enclosed.

[ ] Payment by credit card. Form PTO-2038 is attached.

[x] The Director has already been authorized to charge fees in this application to a Deposit Account.

[x] The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 50-0573 .

[x] Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

[ ] applicant.

[x] attorney or agent of record. Registration number 62,897 .

[ ] attorney or agent acting under 37 CFR 1.34. Registration number _____ .

/Steven C Wiemer/	August 24, 2021
Signature	Date
Steven C. Wiemer	303.607.3730
Typed or printed name	Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

[x] * Total of 1 forms are submitted.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 119 of 368

Electronic Patent Application Fee Transmittal

Application Number:	15689705
Filing Date:	29-Aug-2017
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Filer:	Steven C. Wiemer/Margit Phillips
Attorney Docket Number:	DYS-001675A-US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 1 month with $0 paid	1251	1	220	220
Miscellaneous:				
		Total in USD ($)		**220**

Electronic Acknowledgement Receipt

EFS ID:	43583233
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Steven C. Wiemer/Margit Phillips
Filer Authorized By:	Steven C. Wiemer
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	24-AUG-2021
Filing Date:	29-AUG-2017
Time Stamp:	10:21:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$220
RAM confirmation Number	E20218NA21550959
Deposit Account	500573
Authorized User	Margit Phillips

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		DYS-001675A_supp_amendment_reply.pdf	43179 ac24f12366ba81a7d66257171d5e0145b26e0006	yes	10
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Supplemental Response or Supplemental Amendment		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	10	
Warnings:					
Information:					
2	Extension of Time	DYS-001675A-US_eot.pdf	25396 29bf3ac83919973686abba26e4b6cba7d8a64111	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38126 42e14fd913aab0c40f15070c6d96bb0331219f17	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	106701		

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 a 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/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/689,705	Filing Date 08/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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 $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ 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	08/24/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 39	Minus	** 41	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DAWN BREWER/
*** 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US	7883

55694 7590 08/06/2021

FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

EXAMINER	
LUCCHESI, NICHOLAS D	

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
08/06/2021	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):

DBRIPDocket@faegredrinker.com

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 126 of 368

Advisory Action Before the Filing of an Appeal Brief	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 23 July 2021 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☑ The period for reply expires 3 months from the mailing date of the final rejection.
   b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: See Continuation Sheet (See 37CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☑ Applicants reply has overcome the following rejection(s): 102 rejection
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:1-25 and 32-40.
    Claim(s) objected to:28-31.
    Claim(s) rejected:26-27 and 41.
    Claim(s) withdrawn from consideration:_____.

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 127 of 368

Continuation of 3. NOTE: A new 112 2nd paragraph issue is raised by applicant's amendment. Claim 27, dependent upon amended claim 41, now presents antecedent basis issues regarding "the second end".

Do not enter. /N.L./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

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

Dear Commissioner:

In response to the Final Office Action of April 26, 2021 (hereinafter the "Office Action"), please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 129 of 368

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/689,705	08/29/2017	Daniel John THOMPSON	DYS-001675A-US

CONFIRMATION NO. 7883

55694
FAEGRE DRINKER BIDDLE & REATH LLP (DC)
1500 K STREET, N.W.
SUITE 1100
WASHINGTON, DC 20005-1209

POA ACCEPTANCE LETTER

OC000000127253347

Date Mailed: 07/28/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/25/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/hteffera/

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 130 of 368

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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 displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	15/689,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Title	HAND HELD APPLIANCE
Art Unit	3772
Examiner Name	Nicholas D. Lucchesi
Attorney Docket Number	DYS-001675A-US

SIGNATURE of Applicant or Patent Practitioner

Signature	/Christopher P Bruenjes/	Date (Optional)	July 25, 2021
Name	Christopher P. Bruenjes	Registration Number	62,941
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 1.11 and 1.14. This collection is estimated to take 3 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY

Each party signing this document hereby submits the following:

I/We am/are an Applicant in the application:

☐ identified below.

☒ identified in the attached transmittal letter (PTO/AIA/82A or equivalent).

(Note: check first box if Power of Attorney is specific to a single application; check second box if general Power of Attorney usable for multiple applications.)

I/We hereby revoke all previous powers of attorney in the identified application.

I/We hereby appoint Practitioners associated with Customer Number **055694** as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the identified application.

Please recognize or change the correspondence address for the identified application to the address associated with the above-identified Customer Number.

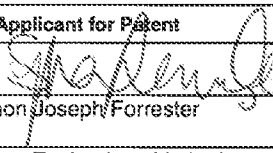
Identified Application Information (to the extent applicable/available):

Application No.:	
Filing Date:	
First Named Inventor:	
Title:	
Art Unit:	
Examiner Name:	
Attorney Docket Number:	

Note: if this section is left blank, then the instant Power of Attorney is for the application identified in any attached transmittal letter (PTO/AIA/82A or equivalent).

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

SIGNATURE of Assignee/Applicant for Patent

Signature		Date (MM/DD/YEAR)	06/08/2021
Name	Simon Joseph Forrester	Title	Group IP Director
Company Name and Address	Dyson Technology Limited Tetbury Hill, Malmesbury Wiltshire, United Kingdom SN16 0RP		

NOTE: A statement under 37 CFR 3.73(c) should be filed along with a copy of this form in the case where the identified application has more than one assignee. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 132 of 368

Electronic Acknowledgement Receipt

EFS ID:	43337018
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Christopher P. Bruenjes/Margit Phillips
Filer Authorized By:	Christopher P. Bruenjes
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	25-JUL-2021
Filing Date:	29-AUG-2017
Time Stamp:	20:29:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	DYS-001675A-US_15689705_POA_transmittal.pdf	107753 0edf56a8c669142ff486a927fb70a4da95a6e2fb	no	1

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 133 of 368

Information:					
2	Power of Attorney	General_Power_of_Attorney_Dyson.pdf	212347 6851bf74b412dcdec850a65aef5d09e105ef2b08	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	320100	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/689,705	Filing Date 08/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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 $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ 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	07/23/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 39	Minus	** 41	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ANGELONA D JONES/
*** 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No.:	15/689,705
Inventor(s)	Daniel John Thompson
Filed:	August 29, 2017
Title:	HAND HELD APPLIANCE
Art Unit:	3772
Examiner:	Lucchesi, Nicholas D.
Atty. Docket No.:	DYS-001675A-US
Customer No.	55694

Confirmation No.: 7883

AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

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

Dear Commissioner:

In response to the Final Office Action of April 26, 2021 (hereinafter the "Office Action"), please amend the above-identified application as follows:

Amendments to the Claims are reflected in the Listing of Claims which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot.

2. (Original) The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. (Original) The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

4. (Original) The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

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5. (Original) The appliance of claim 1, wherein when the first protrusion is at a predetermined position within the first slot, the actuator returns towards the first position.

6. (Original) The appliance of claim 1, wherein the actuator is biased into the first position.

7. (Original) The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. (Original) The appliance of claim 1, wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

9. (Original) The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

10. (Original) The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. (Original) The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed in the inner surface and has a closed end defined by a recess formed at the end of the channel.

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12. (Original) The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. (Original) The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. (Original) The appliance of claim 13, wherein the second face is curved.

15. (Original) The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. (Original) The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. (Original) The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

18. (Original) The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

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SharkNinja et al. v. Dyson Technology Limited,
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19. (Original) The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

20. (Original) The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. (Original) The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. (Original) The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. (Original) The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

24. (Original) The appliance of claim 1, further comprising a user operated button which engages with the actuator.

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25. (Original) The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. (Canceled)

27. (Currently Amended) The appliance of claim [[26]] 41, wherein the chamfer extends from the inner surface towards the outer surface towards the second end.

28. (Canceled)

29. (Currently Amended) The appliance of claim [[28]] 41, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

30. (Currently Amended) The appliance of claim [[28]] 41, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. (Currently Amended) The appliance of claim [[28]] 41, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

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32. (Original) The appliance of claim 1, comprising a second protrusion and a second slot.

33. (Original) The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. (Original) The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. (Original) The appliance of claim 32 wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. (Original) The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

37. (Original) The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

38. (Original) The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

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39. (Original) The appliance of claim 1, wherein the appliance is a hair care appliance.

40. (Original) The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

41. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, wherein at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment comprises a first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

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REMARKS

Claims 1-41 were previously pending in the application. The Office Action allowed claims 1-25 and 32-40, objected to claims 28-31, and rejected claims 26, 27, and 41. By this Response, Applicant has amended claims 27, 29-31, and 41 and canceled claims 26 and 28. Accordingly, claims 1-25, 27, and 29-41 are pending.

Allowable Subject Matter

The Office Action allowed claims 1-25 and 32-40..The Office Action objected to claims 28-31 as being dependent upon rejected base claims, but indicated that such claims would be allowable if rewritten in independent form. Applicant appreciates the acknowledgement of the allowable subject matter. As described below, Applicant has amended independent claim 41 to include the features of allowable dependent claim 28 and intervening claim 26, which have been canceled. With this amendment, all of the pending claims are in condition for allowance.

Claim Rejections – 35 U.S.C. § 102

The Office Action rejected claims 41, 26, and 27 under 35 U.S.C. § 102 as allegedly being anticipated by GB 1131427 (hereinafter "GB 427"). Applicant respectfully disagrees. However, Applicant has amended the claims to expedite prosecution.

Independent claim 41 has been amended to include the features of now-canceled dependent claims 26 and 28, the latter of which the Office Action identified as reciting allowable subject matter.

For at least this reason, Applicant respectfully requests withdrawal of the rejection of claim 41 and the claims depending therefrom (that is, claims 27) under 35 U.S.C. § 102 as allegedly being anticipated by GB 427.

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Final Remarks

Applicant respectfully submits that claims 1-25, 27, and 29-41 are in condition for allowance. Such action is earnestly solicited.

In the event Applicant has overlooked the need for an extension of time or payment of fee, Applicant hereby petitions therefor and authorizes that any charges be made to Deposit Account No. 50-0573, Faegre Drinker Biddle & Reath LLP.

If any questions concerning this application should arise, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

/steven c wiemer/

Steven C. Wiemer
Reg. No. 62,897

Agent for Applicant

Faegre Drinker Biddle & Reath LLP
Telephone: 303-607-3730

Date: July 23, 2021

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 145 of 368

Electronic Acknowledgement Receipt

EFS ID:	43325769
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	55694
Filer:	Steven C. Wiemer
Filer Authorized By:	
Attorney Docket Number:	DYS-001675A-US
Receipt Date:	23-JUL-2021
Filing Date:	29-AUG-2017
Time Stamp:	07:47:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		DYS-001675A-US_Response.pdf	120284 3e5cd3e469c8f49141e1a7362d77c4b086790d3b	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	10
Warnings:			
Information:			
	Total Files Size (in bytes):	120284	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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.

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New International Application Filed with the USPTO as a Receiving Office

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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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/689,705	08/29/2017	Daniel John THOMPSON	42466-21238.00

CONFIRMATION NO. 7883

POWER OF ATTORNEY NOTICE

25227
MORRISON & FOERSTER LLP
2100 L STREET, NW
SUITE 900
WASHINGTON, DC 20037

OC000000126833387

Date Mailed: 07/08/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/07/2021.

- The withdrawal as attorney in this application has been accepted. Future correspondence will be mailed to the new address of record. 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/eefswuser/

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Doc Code: PET.AUTO **Document Description: Petition automatically granted by EFS-Web**	PTO/SB/83 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS**
Application Number	15689705
Filing Date	29-Aug-2017
First Named Inventor	Daniel THOMPSON
Art Unit	3772
Examiner Name	NICHOLAS LUCCHESI
Attorney Docket Number	42466-21238.00
Title	HAND HELD APPLIANCE

◉ Please withdraw me as attorney or agent for the above identified patent application and the practitioners of record associated with Customer Number: 25227

The reason(s) for this request are those described in 37 CFR:

11.116(a)(3)

Certifications

☒ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment

☒ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled

☒ I/We have notified the client of any responses that may be due and the time frame within which the client must respond

Change the correspondence address and direct all future correspondence to:
The address of the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71(for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012), associated with Customer Number: 55694

I am authorized to sign on behalf of myself and all withdrawing practitioners.

Signature	/Jon Bockman/
Name	Jonathan Bockman
Registration Number	45640

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : July 7, 2021

In re Application of :

Daniel THOMPSON

Application No : 15689705

Filed : 29-Aug-2017

Attorney Docket No : 42466-21238.00

DECISION ON REQUEST TO WITHDRAW AS ATTORNEY/AGENTOF RECORD

This is an electronic decision on the Request to Withdraw as attorney or agent of record under 37 CFR§ 1.36(b), filed July 7, 2021

The request is **APPROVED**

The request was signed by Jonathan Bockman (registration no. 45640) on behalf of all attorneys/agents associated with Customer Number 25227 . All attorneys/agents associated with Customer Number 25227 have been withdrawn.

Since there are no remaining attorneys of record, all future communications from the Office will be directed to the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71(for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012), with Customer number 55694 .

As a reminder, requester is required to inform the first named inventor or assignee that has properly made itself of record pursuant to 37 CFR 3.71 (for applications filed before September 16, 2012) or the applicant (for applications filed on or after September 16, 2012) of the electronically processed petition.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	43193790
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Jonathan Bockman/Lindsay Clark
Filer Authorized By:	Jonathan Bockman
Attorney Docket Number:	42466-21238.00
Receipt Date:	07-JUL-2021
Filing Date:	29-AUG-2017
Time Stamp:	22:18:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	31324 1a9609ca12aed6da31559ce210cac4a1ec169150	no	1

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 151 of 368

Information:	
Total Files Size (in bytes):	31324

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.

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	42466-21238.00	7883

25227 7590 04/26/2021

MORRISON & FOERSTER LLP
2100 L STREET, NW
SUITE 900
WASHINGTON, DC 20037

EXAMINER
LUCCHESI, NICHOLAS D

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
04/26/2021	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):

EOfficeVA@mofo.com
PatentDocket@mofo.com
pair_mofo@firsttofile.com

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 153 of 368

Office Action Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 1/19/21.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-41 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☑ Claim(s) 1-25 and 32-40 is/are allowed.

7) ☑ Claim(s) 26-27 and 41 is/are rejected.

8) ☑ Claim(s) 28-31 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 1/19/21.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 41,26,27 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Sunbeam Corporation GB 1131427 (hereafter "GB 427").

With regard to claim 41, GB 427 discloses a handheld appliance (see figs 1 and 2) having a body 10 and an attachment 12, the body 10 comprising an attachment mechanism that comprises a plurality of slots 11 and at least one actuator 15/15', the attachment comprising a plurality of protrusions 14 configured to engage with the plurality of slots 11, wherein the actuator 15/15' has a first position (depressed radially inwardly) and a second position (extended radially outwardly), and the actuator 15/15' is moved from the first position towards the second position as a first protrusion 14 of the plurality of protrusions engages with a first slot of the plurality of slots. This is accomplished when the

attachment 12 is moved toward the body 10, the protrusions 14 move radially inwardly, causing the actuators 15/15' to also move radially inwardly. When the protrusions 14 engage the slots 11, the actuators 15/15' move radially outwardly.

With regard to claim 26, note that the body 10 has a first (righthand) and second (lefthand) end, and the attachment mechanism is adjacent the second end. See fig. 1 and 2. The body 10 comprises a wall 10''' having an outer (exterior) surface and an inner (interior) surface, and wherein at the second end, the wall 10''' comprises a chamfer 25 (in the form of a relief) extending around the inner surface.

With regard to claim 27, note that the chamfer 25 extends from the inner surface towards the outer surface, towards the second end. See fig. 2.

Allowable Subject Matter

Claims 1-25,32-40 are allowed.

Claims 28-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 41,26,27 have been considered but are moot because the new grounds of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS D LUCCHESI whose telephone number is (571)272-4977. The examiner can normally be reached on M-F 800-430.

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, Jacqueline Johanas can be reached on 571-270-5085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-

my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

CPC - Searched*		
Symbol	Date	Examiner
A45D1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12; A46B 5/0095, 15/003	09/14/2020	NL
search updated	04/21/2021	NL

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.

Search Notes		
Search Notes	Date	Examiner
Inventor Search	09/14/2020	NL
search updated	04/21/2021	NL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

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PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Nicholas D. Lucchesi
Attorney Docket Number	42466-21238.00

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					

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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
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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
/N.D.L/	1	205250656	CN	U	2016-05-25	Dyson Technology Limited	Machine Translation	☒
/N.D.L/	2	207927983	CN	U	2018-10-02	Dyson Technology Limited	Machine Translation	☒

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Nicholas D. Lucchesi
	Attorney Docket Number	42466-21238.00

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]
/N.D.L/	1	The First Office Action dated May 28, 2020, directed to CN Application No. 201710780561.1; 20 pages	X

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	04/21/2021

*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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 161 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Nicholas D. Lucchesi
	Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2021-01-19
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

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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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 163 of 368

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	311	thompson adj2 daniel.in.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L3	0	fairholm adj2 lauren.in.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L4	186	A45D1/28.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L5	131	A45D2/367.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L6	131	A45D6/02.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L7	129	A45D6/04.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L8	110	A45D20/48.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L9	226	A45D20/50.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
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L11	156	A45D1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L12	54	A45D2/2457.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L13	7	A45D2/30.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L14	89	A45D2/12.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15

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L16	1,234	A46B5/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L17	0	A465/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L18	0	A4615/003.cpc.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L19	2,509	L4 or L5 or L6 or L7 or L8 or L9 or L10 or L11 or L12 or L13 or L14 or L17 or L18 or L15 or L16	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L20	27	L19 and chamfer	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L21	214	L19 and collar	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L22	328	L19 and protrusion	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L23	473	L19 and slot	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L24	2	("20150265022" | "3280439").PN.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L25	8	(US-0284856-$ | US-1131427-$ | US-1614825-$ | US-3955064-$ | US-4034201-$ | US-4365426-$ | US-4851641-$ | US-20050284856-$).DID.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L26	11	(US-0025106-$ | US-0105274-$ | US-0152272-$ | US-0202545-$ | US-6029307-$ | US-6067724-$ | US-6502585-$ | US-20080105274-$ | US-20080202545-$ | US-20120152272-$ | US-20130025106-$).DID.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L27	25	("3890984" | "3986272").PN. OR ("6067724").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/04/21 16:15
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		"3220421" | "3610258").PN. OR ("3955064").URPN.				
L29	1	"20160278899".pn.	US-PGPUB; USPAT	OR	OFF	2021/04/21 16:15
L30	199	A45D1/28.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L31	139	A45D2/367.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L32	138	A45D6/02.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L33	133	A45D6/04.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L34	122	A45D20/48.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L35	260	A45D20/50.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:27
L36	187	A45D2/36.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:28
L37	171	A45D1/00.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:28
L38	55	A45D2/2457.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:28
L39	8	A45D2/30.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:28
L40	94	A45D2/12.cpc.	US-PGPUB;	OR	OFF	2021/04/21 16:28

			USPAT; EPO; JPO			
L41	97	A46B15/003.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:28
L42	1,271	A46B5/0095.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2021/04/21 16:29

EAST Search History (Interference)

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4/21/2021 4:29:33 PM
C:\Users\nlucchesi\Documents\EAST\Workspaces\15689705.wsp

Electronic Patent Application Fee Transmittal

Application Number:	15689705
Filing Date:	29-Aug-2017
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Attorney Docket Number:	42466-21238.00

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 1 month with $0 paid	1251	1	220	220
Miscellaneous:				
		Total in USD ($)		**220**

Electronic Acknowledgement Receipt

EFS ID:	41687221
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	42466-21238.00
Receipt Date:	19-JAN-2021
Filing Date:	29-AUG-2017
Time Stamp:	19:53:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$220
RAM confirmation Number	E20211IJ54223336
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	30773 826596968000f0f76875f1f10c1b860685d91ac5e	no	2

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Information:

Total Files Size (in bytes):	30773

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 a 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

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Docket No.: 42466-21238.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Daniel John THOMPSON et al.

Application No.: 15/689,705

Filed: August 29, 2017

For: HAND HELD APPLIANCE

Confirmation No.: 7883

Art Unit: 3772

Examiner: Nicholas D. Lucchesi

AMENDMENT UNDER 37 C.F.R. 1.111

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

Dear Commissioner:

In response to the non-final Office Action dated September 18, 2020, the period for response having been extended one month to January 18, 2021, please amend this application as follows.

Amendments to the claims begin on page 2.

Remarks begin on page 7.

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 172 of 368

PTO/SB/08a (03-15)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Nicholas D. Lucchesi
Attorney Docket Number	42466-21238.00

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	1	205250656	CN	U	2016-05-25	Dyson Technology Limited	Machine Translation	☒
	2	207927983	CN	U	2018-10-02	Dyson Technology Limited	Machine Translation	☒

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Nicholas D. Lucchesi
	Attorney Docket Number	42466-21238.00

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	The First Office Action dated May 28, 2020, directed to CN Application No. 201710780561.1; 20 pages	X

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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	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Nicholas D. Lucchesi
	Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2021-01-19
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 175 of 368

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.

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 176 of 368

Electronic Patent Application Fee Transmittal

Application Number:	15689705
Filing Date:	29-Aug-2017
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Attorney Docket Number:	42466-21238.00

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	1	100	100
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**360**

Electronic Acknowledgement Receipt

EFS ID:	41685707
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	42466-21238.00
Receipt Date:	19-JAN-2021
Filing Date:	29-AUG-2017
Time Stamp:	19:41:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$360
RAM confirmation Number	E20211IJ42423151
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		424662123800_Amendment.pdf	135354 d1c57e2a6669f3836cc4e55d45b21f56a1fa0967	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Arguments/Remarks Made in an Amendment	7	10
	Claims	2	6
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1

Warnings:

Information:

2	Information Disclosure Statement (IDS) Form (SB08)	424662123800_IDS.pdf	1066573 f4bd3e24419f82ea5d33863cc959a68432937a59	no	4

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3	Foreign Reference	CN_205250656_U.pdf	3266832 94e9aadcf4f67e4d518112b4382acbaaf4905705	no	30

Warnings:

Information:

4	Foreign Reference	CN_207927983_U.pdf	705579 a9cc33d46898726e5daade555dddb0c9fdbf73ef	no	26

Warnings:

Information:

5	Non Patent Literature	CNOA_05-28-2020_20171078056 1.pdf	1370084 c16648a7778f138dbe4e5e10ad12e850972b939a	no	20
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	32330 db4b4b65fd49ac85fe08b7569d975146b2741c02	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	6576752		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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.

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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.

REMARKS

Applicant notes, with appreciation, the indication of allowable subject matter in claims 20-23 and 34-38.

Claims 1 and 26 have been amended and new independent claim 41 has been added. Support for the amendment and new claims is found, at least, in FIGS. 1a and 5. No new matter has been added.

With respect to any claim amendments and/or cancellations made herein, Applicant has not dedicated to the public or abandoned any unclaimed subject matter. Any amendments and/or cancellations have been made only in the interest of progressing the prosecution of this application and do not indicate that any amendments and/or cancellations are necessary for patentability. Moreover, Applicant has not acquiesced to any rejections and/or objections made by the Patent Office. Applicant reserves the right to pursue prosecution of any presently excluded claim embodiments in a future continuation and/or divisional application.

Claims 1-19, 24, 25, 32, 33, 39 and 40 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Vasey (WO-95/20339). This rejection is respectfully traversed.

Claim 1 has been amended to recite:

> A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position <u>in a longitudinal direction of the body</u> as the first protrusion engages with the first slot.

Thus, according to amended claim 1, the "actuator is moved from the first position towards the second position <u>in a longitudinal direction of the body</u> as the first protrusion engages with the first slot." An example of the movement of the actuator as the first protrusion engages the first slot is illustrated in FIG. 1a and FIG. 1b of the application, which are reproduced below for convenience.

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IPR2024-00219 Page 182 of 368

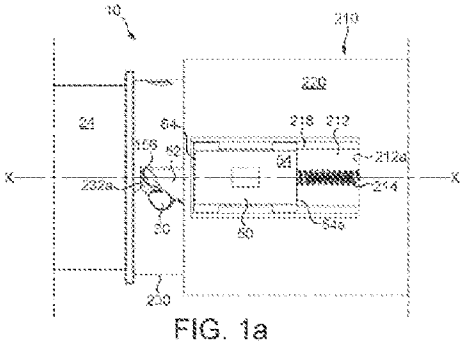

FIG. 1a

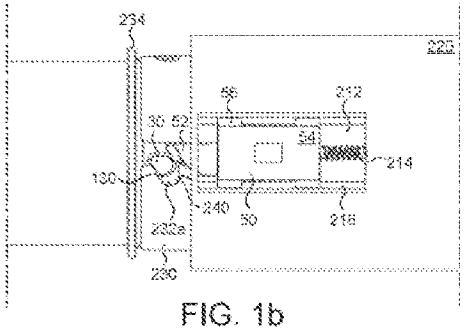

FIG. 1b

In the illustrated example, the actuator 50 moves in the longitudinal direction of the body 210 (in the direction of axis X-X), as protrusion 30 engages slot 232a.

The references fail to disclose or suggest that "actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot," as recited in amended claim 1. The Examiner relies on the cavity 2 of Vasey as being the slot of the attachment mechanism, the sprung steel 18 as being the actuator of the attachment mechanism, and the mandrel 4 as being the first protrusion. As the mandrel is engaging the cavity 2, the sprung steel 18 moves laterally—perpendicularly to the longitudinal direction of the main handle 1. In contrast, amended claim 1 requires the actuator to move "in a longitudinal direction of the body." Thus, Vasey fails to disclose or suggest "actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot," as recited in amended claim 1.

Accordingly, the rejection of claim 1, as amended, should be withdrawn. The rejections of dependent claims 2-19, 24, 25, 32, 33, 39 and 40 should be withdrawn at least for the respective dependencies of the claims.

Claims 26-31 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Baudoin (US-6,029,307). This rejection is respectfully traversed.

Claim 26 has been amended to depend from new independent claim 41, which has been added. Claim 41 recites:

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 183 of 368

> A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots.

Thus, according to claim 41, the attachment mechanism of the body comprises a plurality of slots and the attachment comprises a plurality of protrusions that engage with the plurality of slots.

The references fails to disclose or suggest "the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots," as recited in claim 41. As noted above, the Examiner relies on the cavity 2 of Vasey as being the slot of the attachment mechanism and the mandrel 4 as being the first protrusion. There is only one each of these, not a plurality of each as required by claim 41.

Dependent claim 32, which depends from claim 1, recites "a second protrusion and a second slot." Thus, claim 32 requires at least two protrusions and at least two slots. The Examiner rejects claim 32 based on Vasey. However, the Examiner's rejection of claim 32 does not apply to claim 41. For the second protrusion/slot of claim 32, the Examiner relies on the opposite one of the body and attachment as relied upon for the first protrusion/slot recited in claim 1. The Examiner cites the cavity 2 of the main handle 1 as the slot recited in claim 1 and the groove 16 of the attachment as the second slot recited in claim 32. Thus, the Examiner's two slots are each on a different one of the body and attachment, and the same is true of the Examiner's two projections (the Examiner cites the mandrel 4 of the attachment as the protrusion of claim 1 and the button 14 of the handle 1 as the second protrusion of claim 32). Claim 41 clarifies that the plurality of slots are on the body and the plurality of protrusions are on the attachment. Vasey fails to disclose or suggest this feature. Baudoin fails to cure this deficiency.

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 184 of 368

Thus, claim 41 is allowable over the cited references. The rejections of dependent claims 26-31 should be withdrawn at least for the respective dependencies of the claims from allowable claim 41.

If it is determined that a telephone conference would expedite the prosecution of this application, the Examiner is invited to telephone the undersigned at the number given below.

In the event the U.S. Patent and Trademark Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. **03-1952** referencing docket no. **42466-21238.00**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: January 19, 2021

Respectfully submitted,

Electronic Signature: /christopher gloria/
Christopher Gloria
Registration No.: 71,907
MORRISON & FOERSTER LLP
2100 L Street NW, Suite 900
Washington, DC 20037
+1 (202) 791-8572

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 185 of 368

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position in a longitudinal direction of the body as the first protrusion engages with the first slot.

2. (Original) The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. (Original) The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

4. (Original) The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

5. (Original) The appliance of claim 1, wherein when the first protrusion is at a pre-determined position within the first slot, the actuator returns towards the first position.

6. (Original) The appliance of claim 1, wherein the actuator is biased into the first position.

7. (Original) The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. (Original) The appliance of claim 1, wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

9. (Original) The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

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SharkNinja et al. v. Dyson Technology Limited,
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10. (Original) The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. (Original) The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed in the inner surface and has a closed end defined by a recess formed at the end of the channel.

12. (Original) The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. (Original) The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. (Original) The appliance of claim 13, wherein the second face is curved.

15. (Original) The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. (Original) The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. (Original) The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface, and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

18. (Original) The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

19. (Original) The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

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20. (Original) The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. (Original) The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. (Original) The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. (Original) The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

24. (Original) The appliance of claim 1, further comprising a user operated button which engages with the actuator.

25. (Original) The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. (Currently Amended) [[A]] The handheld appliance of claim 41, wherein ~~having a body and an attachment,~~ the body ~~having~~ has a first end and a second end ~~and comprising an~~ and the attachment mechanism is adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

27. (Original) The appliance of claim 26, wherein the chamfer extends from the inner surface towards the outer surface towards the second end.

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SharkNinja et al. v. Dyson Technology Limited,
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28. (Original) The appliance of claim 26, wherein the attachment comprises a first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

29. (Original) The appliance of claim 28, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

30. (Original) The appliance of claim 28, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. (Original) The appliance of claim 28, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

32. (Original) The appliance of claim 1, comprising a second protrusion and a second slot.

33. (Original) The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. (Original) The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. (Original) The appliance of claim 32, wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. (Original) The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

37. (Original) The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

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38. (Original) The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

39. (Original) The appliance of claim 1, wherein the appliance is a hair care appliance.

40. (Original) The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

41. (New) A handheld appliance having a body and an attachment, the body comprising an attachment mechanism that comprises a plurality of slots and at least one actuator, the attachment comprising a plurality of protrusions configured to engage with the plurality of slots, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as a first protrusion of the plurality of protrusions engages with a first slot of the plurality of slots.

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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 15/689,705	Filing Date 08/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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 $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ 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	01/19/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 41	Minus	** 40	= 1		x $100 =	100
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	100

		(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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/POLIN ANG/
*** 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	42466-21238.00	7883

25227 7590 09/18/2020

MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 300
MCLEAN, VA 22102

EXAMINER
LUCCHESI, NICHOLAS D

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
09/18/2020	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):

EOfficeVA@mofo.com
PatentDocket@mofo.com
pair_mofo@firsttofile.com

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Office Action Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 6/8/20.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-40 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-19,24-33 and 39-40 is/are rejected.

8) ☑ Claim(s) 20-23 and 34-38 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 8/29/17 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☑ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 10/26/17, 7/24/18, 9/26/18, 5/14/19, 8/2/19.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Election/Restrictions

Applicant's request for withdrawal of the restriction requirement, supported by arguments in the response of 6/8/20 has been fully considered. Applicant's arguments are found persuasive, and accordingly, the restriction requirement is withdrawn. Claims 1-40 will be examined on the merits.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-19,24,25,32,33,39,40 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Vasey WO95/20339 (cited by applicant).

With regard to claim 1, Vasey discloses a handheld appliance (fig. 11) having a body 1 and an attachment 9, the body 1 comprising an attachment mechanism 14 having a first slot 2 and an actuator 18, the attachment 9 comprising a first protrusion 4 configured to engage with the first slot 2, the actuator 18 has a first position and a second position, with the actuator being moved from the first

position to the second position as the first protrusion 4 engages with the first slot. See page 20, second paragraph.

With regard to claim 2, note that when the actuator 18 is in the first position, it at least partially obscures the first slot 2.

With regard to claim 3, note that the actuator 18 comprises a surface 19 which interacts with the first protrusion 4 when the first protrusion 4 engages with the first slot 2.

With regard to claim 4, note that the surface 19 at least partially defines the first slot 2 (the surface 19 is in the slot 2, and thus partially defines it), whether it is in the first or the second position.

With regard to claim 5, note that when the first protrusion 4 is at a predetermined position (fully inserted) within the first slot 2, the actuator 18 returns toward the first position. See fig. 11.

With regard to claim 6, note that the actuator 18 is biased into the first position. See page 20, lines 18-28.

With regard to claim 7, note that the actuator 18 retains the attachment 9 on the body 1.

With regard to claim 8, note that the body 1 extends along a longitudinal axis. Also, note that the first slot 2 extends both radially around (in a vertical direction), and axially along (in a horizontal direction) the body 1.

With regard to claims 9 and 10, note that the first protrusion 4 comprises a first face 16 for engagement with actuator 18.

With regard to claim 11, note that the body 1 comprises a wall having an outer surface and an inner surface 3, with the first slot 2 being a closed channel (closed at the inner most end) formed in the inner surface 3. The first slot 2 has a closed end defined by a recess (the recess that holds button 14) at the end of the channel.

With regard to claim 12, note that the recess (that holds button 14) is defined by a wall of the first slot 2.

With regard to claim 13, note that the first protrusion 4 comprises a second face (the circumferential surface of 4) for engagement with the wall of the first slot 2.

With regard to claim 14, note that the second face (the circumferential surface of 4) is curved.

With regard to claim 15, note that the actuator 18 comprises a second surface (the surface of the spring member) that interacts with the first protrusion 4 when the first protrusion 4 engages with the recess.

With regard to claim 16 note that the body 1 has first and second ends, and that the attachment mechanism is adjacent the second end. See fig. 11.

With regard to claim 17, note chamfer 3 at the second end.

With regard to claim 18, note that chamfer extends from the inner surface to the outer surface of body 1.

With regard to claim 19, note collar 5 extending around the attachment 9, with protrusion 4 extending from collar 5.

With regard to claim 24, note user operated button 14 that engages with the actuator 18.

With regard to claim 25, note that actuation of button 14 moves the actuator 18 from the first to the second position to facilitate removal of the attachment from the body 1.

With regard to claim 32, note second protrusion (on the underside of button 14) and second slot (the slot accommodating button 14).

With regard to claim 33, note that the second protrusion and the second slot are radially (outwardly) spaced from the first protrusion 4 and first slot 2.

With regard to claims 39 and 40, note that the appliance is a hair care appliance, which is also used in hot styling procedures. See page 4, last two lines.

Claims 26-31 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Baudoin 6029307 (cited by applicant).

With regard to claim 26, Baudoin discloses a handheld appliance (fig. 3) having a body 16 and an attachment 14, the body 16 having a first end and a second end and comprising an attachment mechanism adjacent the second end. The body 16 comprises a wall having an outer surface and an inner surface 28, and at the second end, the wall comprises a chamfer 44 extending around the inner surface.

With regard to claim 27, note that the chamfer 44 extends from the inner surface 28 towards the outer surface towards the second end.

With regard to claim 28, note that the attachment 14 comprises a first end, a second end 18, a collar 48 extending around the attachment adjacent the first end, and the collar 48 comprises a further chamfer 22.

With regard to claim 29, note that the further chamfer 22 is at the distal end of the collar 48 from the first end of the attachment 14.

With regard to claim 30, note that the further chamfer 22 extends from the collar 48 radially outwards and towards the second end of the attachment 14.

With regard to claim 31, note that the chamfer 44 on the body 16 and the further chamfer 22 on the attachment engage each other as the attachment is attached to the body.

Allowable Subject Matter

Claims 20-23,34-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS D LUCCHESI whose telephone number is (571)272-4977. The examiner can normally be reached on M-F 800-430.

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, Jacqueline Johanas can be reached on 571-270-5085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

Notice of References Cited	Application/Control No. 15/689,705	Applicant(s)/Patent Under Reexamination THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-10143284-B2	12-2018	Depoyian; Jacques	A45D1/04	1/1
*	B	US-7296580-B1	11-2007	Sbardella; Donna	A45D2/122	132/122
*	C	US-6725562-B2	04-2004	Nakagawa; Takashi	A45D20/12	34/96
*	D	US-5992423-A	11-1999	Tevolini; Gennaro	A45D2/2471	132/120
*	E	US-5887600-A	03-1999	Wilk; Sue	A45D6/04	132/150
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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SharkNinja et al. v. Dyson Technology Limited,
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/689,705	THOMPSON et al.
	Examiner	Art Unit
	NICHOLAS D LUCCHESI	3772

CPC - Searched*		
Symbol	Date	Examiner
A45D1/28, 2/367, 6/02, 6/04, 20/48, 20/50, 2/36, 1/00, 2/2457, 2/30, 20/12; A46B 5/0095, 15/003	09/14/2020	NL

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.

Search Notes		
Search Notes	Date	Examiner
Inventor Search	09/14/2020	NL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/NICHOLAS D LUCCHESI/ Primary Examiner, Art Unit 3772	

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SharkNinja et al. v. Dyson Technology Limited,
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	302	thompson adj2 daniel.in.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L3	0	fairholm adj2 lauren.in.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L4	173	A45D1/28.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L5	122	A45D2/367.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L6	130	A45D6/02.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L7	127	A45D6/04.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L8	108	A45D20/48.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L9	220	A45D20/50.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L10	174	A45D2/36.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L11	150	A45D1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L12	53	A45D2/2457.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L13	7	A45D2/30.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L14	89	A45D2/12.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53

L15	88	A46B15/003.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L16	1,147	A46B5/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L17	0	A465/0095.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L18	0	A4615/003.cpc.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L19	2,387	L4 or L5 or L6 or L7 or L8 or L9 or L10 or L11 or L12 or L13 or L14 or L17 or L18 or L15 or L16	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L20	23	L19 and chamfer	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L21	199	L19 and collar	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L22	301	L19 and protrusion	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L23	446	L19 and slot	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L24	2	("20150265022" | "3280439").PN.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L25	8	(US-0284856-$ | US-1131427-$ | US-1614825-$ | US-3955064-$ | US-4034201-$ | US-4365426-$ | US-4851641-$ | US-20050284856-$).DID.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L26	11	(US-0025106-$ | US-0105274-$ | US-0152272-$ | US-0202545-$ | US-6029307-$ | US-6067724-$ | US-6502585-$ | US-20080105274-$ | US-20080202545-$ | US-20120152272-$ | US-20130025106-$).DID.	US-PGPUB; USPAT	OR	OFF	2020/09/14 13:53
L27	24	("3890984" | "3986272").PN. OR ("6067724").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/09/14 13:53
L28	93	("0364956" | "0536802" | "1117021" | "1284792" | "1588241" | "2258844" | "2648757" | "3102941" | "3120598" |	US-PGPUB; USPAT; USOCR	OR	OFF	2020/09/14 13:53

		"3220421" | "3610258").PN. OR ("3955064").URPN.				

EAST Search History (Interference)

<This search history is empty>

9/14/2020 1:59:14 PM
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ALTERNATIVE TO PTO/SB/08A/B
(Based on PTO 08-08 version)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	15/689,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Art Unit	3776
Examiner Name	Not Yet Assigned
Attorney Docket Number	424662123800

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/N.D.L/	1.	US-3,955,064	05-04-1976	Demetrio et al.	
/N.D.L/	2.	US-4,034,201	07-05-1977	Walter et al.	
/N.D.L/	3.	US-4,365,426	12-28-1982	Suzuki et al.	
/N.D.L/	4.	US-4,851,641	07-25-1989	Barowski et al.	
/N.D.L/	5.	US-2005/0284856	12-29-2005	Cafaro et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
/N.D.L/	6.	TW-M259504	03-21-2005	Jui-Chang VIANG	Figures only	
/N.D.L/	7.	GB-1,131,427	10-23-1968	Sunbeam Corporation		
/N.D.L/	8.	GB-1 456 000	11-17-1976	Sunbeam Corporation (William R. Hemrich et al.)		
/N.D.L/	9.	GB-1 494 611	12-07-1977	Braun Aktiengesellschaft		
/N.D.L/	10.	GB-1 530 360	10-25-1978	Braun Aktiengesellschaft		
/N.D.L/	11.	GB-2 021 943	12-12-1979	Braun Aktiengesellschaft (Jürgen BÖHM et al.)		
/N.D.L/	12.	JP-59-186505	10-23-1984	Panasonic Electric Works (Hirotaka JOSA)	Machine translation	x
/N.D.L/	13.	JP-64-72706	03-17-1989	Matsushita Electric Works Ltd. (Hiroyuki TAGISHI et al.)	Machine translation	x
/N.D.L/	14.	EP-0 250 992	01-07-1988	Braun Aktiengesellschaft (Dieter LIEBENTHAL.)	Corresponds with US 4,851,641 listed above	
/N.D.L/	15.	EP-0 300 281	01-25-1989	Forfex Popp A Haarpflegegeraet (Frank POPP)	Machine translation	x
/N.D.L/	16.	JP-6-237815	08-30-1994	Matsushita Electric Works Ltd. (Kazunori CHIYUUSAI)	Machine translation	x
/N.D.L/	17.	JP-11-235224	08-31-1999	Rozen Star Kk (Eiji OTA)	Machine translation	x
/N.D.L/	18.	JP-2001-353020	12-25-2001	Yodogawa Denki Seisakusho Kk (Kadotaka FUKUYAMA)	Machine translation	x
/N.D.L/	19.	DE-102 39 716	03-11-2004	Braun Gmbh (Friedrich HENNINGER et al.)	Machine translation	x
/N.D.L/	20.	JP-2007-105144	04-26-2007	Hitachi Maxell (Takenori OKAMURA et al.)	Machine translation	x

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

va-505230

ALTERNATIVE TO PTO/SB/08A/B
(Based on PTO 08-08 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	15/689,705
				Filing Date	August 29, 2017
				First Named Inventor	Daniel John THOMPSON
				Art Unit	3776
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	424662123800

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
/N.D.L/	21.	Search Report mailed February 10, 2017, directed to GB Application No. 1614825.6; 1 page	

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

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va-505230

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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
/N.D.L/	1	3280439		1966-10-25	McCarthy	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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
/N.D.L/	1	20150265022		2015-09-24	Maclaine	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
/N.D.L/	1	2008-105454	JP		2008-05-08		Machine Translation	☒
/N.D.L/	2	2015-181947	JP		2015-10-22	Dyson Technology Limited	Corresponds to US 2015/0265022 cited above	☐
	3	45-13287	JP		1970-05-14		Machine Translation	☒

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	15689705
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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]
/N.D.L/	1	Notification of Grounds for Rejection mailed December 10, 2018, directed to JP Application No. 2017-168409; 10 pages	X

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

CERTIFICATION STATEMENT

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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	/christopher gloria/	Date (YYYY-MM-DD)	2019-08-02
Name/Print	Christopher Gloria	Registration Number	71907

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.**

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 208 of 368

Privacy Act Statement

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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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 209 of 368

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

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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
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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]
/N.D.L/	1	2015/140506	WO		2015-09-24	Dyson Technology Limited		

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Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

/N.D.L/	1	Search Report dated December 11, 2018, directed to GB Application No. 1819049.6; 1 page

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EXAMINER SIGNATURE

Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 211 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

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Signature	/christopher gloria/	Date (YYYY-MM-DD)	2019-05-14
Name/Print	Christopher Gloria	Registration Number	71,907

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 212 of 368

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Doc code: IDS
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First Named Inventor	DANIEL JOHN THOMPSON
Art Unit	3732
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

U.S.PATENTS

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
/N.D.L/	1	6029307		2000-02-29	Baudoin	

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/N.D.L/	1	2789880	FR		2000-08-25	SEB SA	Machine Translation	☒

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NON-PATENT LITERATURE DOCUMENTS

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 214 of 368

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First Named Inventor	DANIEL JOHN THOMPSON
Art Unit	3732
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

/N.D.L/	1	Search Report dated June 28, 2018, directed to GB Application No. 1614825.6; 1 page	☐

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☒ A certification statement is not submitted herewith.

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Signature	/christopher gloria/	Date (YYYY-MM-DD)	2018-09-26
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

SharkNinja Ex. 1002
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IPR2024-00219 Page 216 of 368

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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 217 of 368

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15/689,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Art Unit	3732
Examiner Name	C. L. Rodriguez
Attorney Docket Number	42466-21238.00

U.S. PATENTS

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
/N.D.L/	1.	US-6,029,307		02-29-2000	Baudoin	
/N.D.L/	2.	US-6,067,724		05-30-2000	Depoyian	
/N.D.L/	3.	US-6,502,585		01-07-2003	Mazzei et al.	

U.S. PATENT APPLICATION PUBLICATIONS

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
/N.D.L/	4.	US-2008/0105274		05-08-2008	Kennedy	
/N.D.L/	5.	US-2008/0202545		08-28-2008	Purvis et al.	
/N.D.L/	6.	US-2012/0152272		06-21-2012	Solovey	
/N.D.L/	7.	US-2013/0025106		01-31-2013	Hernandez-Laines	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Country Code[2]	Foreign Document Number[3]	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]
/N.D.L/	8.	WO-95/20339			08-03-1995	Mark VASEY		

SharkNinja Ex. 1002
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IPR2024-00219 Page 218 of 368

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	Application Number	15/689,705
	Filing Date	August 29, 2017
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3732
	Examiner Name	C. L. Rodriguez
	Attorney Docket Number	42466-21238.00

NON-PATENT LITERATURE DOCUMENTS			
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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/N.D.L/	9.	International Search Report mailed January 24, 2018, directed to International Application No. PCT/GB2017/052427; 5 pages	

EXAMINER SIGNATURE			
Examiner Signature	/NICHOLAS D LUCCHESI/	Date Considered	09/14/2020

*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.

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

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	Application Number	15/689,705
	Filing Date	August 29, 2017
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3732
	Examiner Name	C. L. Rodriguez
	Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2018-07-24
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

Docket No.: 42466-21238.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Daniel John THOMPSON et al.

Application No.: 15/689,705

Filed: August 29, 2017

For: HAND HELD APPLIANCE

Confirmation No.: 7883

Art Unit: 3772

Examiner: Nicholas D. Lucchesi

RESPONSE TO ELECTION REQUIREMENT

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

Dear Commissioner:

In response to the Election Requirement dated April 6, 2020, Applicants elect to prosecute Species 1, *with traverse*. All of the claims read on the elected species.

The Election Requirement identified as patentably distinct species the "Appliance of claim 1" and the "Appliance of claim 26". Thus, the Examiner asserts that the two independent claims are two different species. However, this is incorrect since claims 1 and 26 do not define different species. Rather, they overlap in scope in that the same species is covered by both claims. Since the Examiner has not identified different species, the Election Requirement should be withdrawn.

"Claims themselves are never species." (MPEP 806.04(e).) Rather, "[c]laims are definitions of inventions." (*Id.*) Species are different embodiments of the claimed invention. (*Id.*)

SharkNinja Ex. 1002
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The Examiner has failed to identify species—i.e., different embodiments. The inventions as defined in claims 1 and 26 overlap in scope. For example, the feature of "the body comprises a wall having an outer surface and an inner surface, and wherein at the second end, the wall comprises a chamfer extending around the inner surface," recited in claim 26, is also recited in claim 17, which depends from claim 1 via claim 16. Thus, there is an embodiment that has the features of claim 1 and the features of claim 26. This shows that claims 1 and 26 do not define different embodiments.

Accordingly, the Election of Species requirement is erroneous and should be withdrawn.

With respect to any claim amendments and/or cancellations made herein, Applicant has not dedicated to the public or abandoned any unclaimed subject matter. Any amendments and/or cancellations have been made only in the interest of progressing the prosecution of this application and do not indicate that any amendments and/or cancellations are necessary for patentability. Moreover, Applicant has not acquiesced to any rejections and/or objections made by the Patent Office. Applicant reserves the right to pursue prosecution of any presently excluded claim embodiments in a future continuation and/or divisional application.

If it is determined that a telephone conference would expedite the prosecution of this application, the Examiner is invited to telephone the undersigned at the number given below.

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In the event the U.S. Patent and Trademark Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. **03-1952** referencing docket no. **42466-21238.00**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: June 8, 2020

Respectfully submitted,

Electronic Signature: /christopher gloria/
Christopher Gloria
Registration No.: 71,907
MORRISON & FOERSTER LLP
1650 Tysons Boulevard Suite 300
McLean, VA 22102-4220
+1 (703) 760-7389

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 223 of 368

Electronic Acknowledgement Receipt

EFS ID:	39657550
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	42466-21238.00
Receipt Date:	08-JUN-2020
Filing Date:	29-AUG-2017
Time Stamp:	16:55:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	424662123800_ResponsetoElectionRequirement.pdf	112013 eb4fd5c16fb415b00d5cae435c55400ecb6edefc	no	3

Warnings:

Information:	
Total Files Size (in bytes):	112013

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 a 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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/689,705	08/29/2017	Daniel John THOMPSON	42466-21238.00	7883

25227 7590 04/06/2020

MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 300
MCLEAN, VA 22102

EXAMINER
LUCCHESI, NICHOLAS D

ART UNIT	PAPER NUMBER
3772	

NOTIFICATION DATE	DELIVERY MODE
04/06/2020	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):

EOfficeVA@mofo.com
PatentDocket@mofo.com
pair_mofo@firsttofile.com

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Office Action Summary	Application No. 15/689,705	Applicant(s) THOMPSON et al.	
	Examiner NICHOLAS D LUCCHESI	Art Unit 3772	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 8/29/17.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-40 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☐ Claim(s) _____ is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☑ Claim(s) 1-40 are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Election/Restriction

This application contains claims directed to the following patentably distinct species:

Species I: Appliance of claim 1.

Species II: Appliance of claim 26.

The species are independent or distinct because the specifics of the attachment mechanism are not required for the species of claim 26. Similarly, the species of claim 1 does not require the wall and the chamfer. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason(s) apply: The species require mutually exclusive search terms and search areas. For example, Species II does not require a search for the protrusions that are required for Species I.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICHOLAS D LUCCHESI whose telephone number is (571)272-4977. The examiner can normally be reached on M-F 800-430.

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, Cris Rodriguez can be reached on 571-272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NICHOLAS D LUCCHESI/
Primary Examiner, Art Unit 3772

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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	3280439		1966-10-25	McCarthy	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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	20150265022		2015-09-24	Maclaine	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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	2008-105454	JP		2008-05-08		Machine Translation	☒
	2	2015-181947	JP		2015-10-22	Dyson Technology Limited	Corresponds to US 2015/0265022 cited above	☐
	3	45-13287	JP		1970-05-14		Machine Translation	☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Sarah Ann Woodhouse
Attorney Docket Number	42466-21238.00

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	Notification of Grounds for Rejection mailed December 10, 2018, directed to JP Application No. 2017-168409; 10 pages	X

If you wish to add additional non-patent literature document citation information please click the Add button [Add]

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	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Sarah Ann Woodhouse
	Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2019-08-02
Name/Print	Christopher Gloria	Registration Number	71907

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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 234 of 368

Electronic Acknowledgement Receipt

EFS ID:	36769386
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Donna Bernecker
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800
Receipt Date:	02-AUG-2019
Filing Date:	29-AUG-2017
Time Stamp:	14:58:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SB08_424662123800.PDF	1042389 e92728b72faac76a426aa5ed3214a2b70dcd8ade	no	4

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 235 of 368

Information:					
2	Foreign Reference	JP_2008_105454.pdf	1076637 8cd27f8039062405eae0af6f520fb757fd8a2e21	no	63
Warnings:					
Information:					
3	Foreign Reference	JP_2015_181947.pdf	7641980 4ac7d66e25b4163d8ab6d57754de5ddf46d9c015	no	35
Warnings:					
Information:					
4	Foreign Reference	JP_45_13287.pdf	949628 30376dfc7d3af912d39ad715baf6333af154c469	no	10
Warnings:					
Information:					
5	Non Patent Literature	JPOA_12-10-2018_2017168409.pdf	3433567 a4903c72d4113c2e3927ebd94816b565f66b935a	no	10
Warnings:					
Information:					
		Total Files Size (in bytes):	14144201		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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 (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	Daniel John THOMPSON
Art Unit	3772
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

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					

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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					

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	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	2015/140506	WO		2015-09-24	Dyson Technology Limited		

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]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Cris Loiren Rodriguez
	Attorney Docket Number	42466-21238.00

	1	Search Report dated December 11, 2018, directed to GB Application No. 1819049.6; 1 page

If you wish to add additional non-patent literature document citation information please click the Add button Add

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.

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 238 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3772
	Examiner Name	Cris Loiren Rodriguez
	Attorney Docket Number	42466-21238.00

CERTIFICATION STATEMENT

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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	/christopher gloria/	Date (YYYY-MM-DD)	2019-05-14
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

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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.

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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)).

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SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 240 of 368

Electronic Acknowledgement Receipt

EFS ID:	36002910
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Donna Bernecker
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800
Receipt Date:	14-MAY-2019
Filing Date:	29-AUG-2017
Time Stamp:	12:52:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SB08_424662123800.PDF	1059877 0ac963db85e7957c23be4c33c9b04ccdfe36ca75	no	4

Warnings:

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IPR2024-00219 Page 241 of 368

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A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
2	Foreign Reference	WO_2015_140506.pdf	4183012 cb4702b007feb4c5f779272e6ff5b406b61c7f6e	no	46
Warnings:					
Information:					
3	Non Patent Literature	GBSR_12-11-2018_1819049.pdf	221778 af4690aceb58622 4fa3dcad912f9ea3d06c74617	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	5464667	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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

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PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	DANIEL JOHN THOMPSON
Art Unit	3732
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

U.S.PATENTS

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	6029307		2000-02-29	Baudoin	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

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					

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FOREIGN PATENT DOCUMENTS

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	2789880	FR		2000-08-25	SEB SA	Machine Translation	☒

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NON-PATENT LITERATURE DOCUMENTS

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]

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 243 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15689705
	Filing Date	2017-08-29
	First Named Inventor	DANIEL JOHN THOMPSON
	Art Unit	3732
	Examiner Name	Cris Loiren Rodriguez
	Attorney Docket Number	42466-21238.00

	1	Search Report dated June 28, 2018, directed to GB Application No. 1614825.6; 1 page	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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[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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 244 of 368

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15689705
Filing Date	2017-08-29
First Named Inventor	DANIEL JOHN THOMPSON
Art Unit	3732
Examiner Name	Cris Loiren Rodriguez
Attorney Docket Number	42466-21238.00

CERTIFICATION STATEMENT

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

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☐ 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	/christopher gloria/	Date (YYYY-MM-DD)	2018-09-26
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 245 of 368

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.

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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.

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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.

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 246 of 368

Electronic Acknowledgement Receipt

EFS ID:	33835466
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Donna Bernecker
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800
Receipt Date:	26-SEP-2018
Filing Date:	29-AUG-2017
Time Stamp:	17:02:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SB08_424662123800.pdf	125180 43739789a69d6ee28696a04cb2fcf89cde28bb0c	no	4

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 247 of 368

Information:					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	FR_2789880.pdf	4419948 a093175d8cb67a4957392804dcf1c8300af006d9	no	25
Warnings:					
Information:					
3	Non Patent Literature	GBSR_06-28-2018_1614825.pdf	98317 1d85e1a1def7c28946f451bac47d77dc316df04e	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	4643445	

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 a 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 (03-15)
Approved for use through 07/31/2016. 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	15/689,705
	Filing Date	August 29, 2017
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3732
	Examiner Name	C. L. Rodriguez
	Attorney Docket Number	42466-21238.00

U.S. PATENTS

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.	US-6,029,307		02-29-2000	Baudoin	
	2.	US-6,067,724		05-30-2000	Depoyian	
	3.	US-6,502,585		01-07-2003	Mazzei et al.	

U.S. PATENT APPLICATION PUBLICATIONS

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
	4.	US-2008/0105274		05-08-2008	Kennedy	
	5.	US-2008/0202545		08-28-2008	Purvis et al.	
	6.	US-2012/0152272		06-21-2012	Solovey	
	7.	US-2013/0025106		01-31-2013	Hernandez-Laines	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Country Code[2]	Foreign Document Number[3]	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]
	8.	WO-95/20339			08-03-1995	Mark VASEY		

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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.

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	Application Number	15/689,705
	Filing Date	August 29, 2017
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3732
	Examiner Name	C. L. Rodriguez
	Attorney Docket Number	42466-21238.00

NON-PATENT LITERATURE DOCUMENTS			
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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	9.	International Search Report mailed January 24, 2018, directed to International Application No. PCT/GB2017/052427; 5 pages	

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.

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. 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	15/689,705
	Filing Date	August 29, 2017
	First Named Inventor	Daniel John THOMPSON
	Art Unit	3732
	Examiner Name	C. L. Rodriguez
	Attorney Docket Number	42466-21238.00

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	/christopher gloria/	Date (YYYY-MM-DD)	2018-07-24
Name/Print	Christopher Gloria	Registration Number	71,907

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.**

International application No
PCT/GB2017/052427

A. CLASSIFICATION OF SUBJECT MATTER
INV. A45D1/00 A45D20/12 A46B5/00
ADD.

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)
A45D A46B

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95/20339 A1 (VASEY MARK [GB]) 3 August 1995 (1995-08-03) page 20; figures 9-11	1-7, 9-18,24, 25,39,40
X	US 6 067 724 A (DEPOYIAN JACQUES [US]) 30 May 2000 (2000-05-30) figure 9	1-7, 9-18,24, 25,39,40
X	US 3 955 064 A (DEMETRIO CONCETTO BRUNO ET AL) 4 May 1976 (1976-05-04) the whole document	1-7, 9-13,24, 25,39,40
A	US 2013/025106 A1 (HERNANDEZ-LAINES ALAN I [US]) 31 January 2013 (2013-01-31) the whole document	1

-/--

[X] Further documents are listed in the continuation of Box C. [X] 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
16 November 2017	24/01/2018

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Nicolás, Carlos

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 252 of 368

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 029 307 A (BAUDOIN THOMAS [US]) 29 February 2000 (2000-02-29) page 1	1
A	US 2012/152272 A1 (SOLOVEY FELIX [US]) 21 June 2012 (2012-06-21) page 1	1
A	US 6 502 585 B1 (MAZZEI GINO [CA] ET AL) 7 January 2003 (2003-01-07) page 1	1
A	US 2008/105274 A1 (KENNEDY STACEY M [US]) 8 May 2008 (2008-05-08) page 1	1
A	US 2008/202545 A1 (PURVIS JONNA M [US] ET AL) 28 August 2008 (2008-08-28) page 1	1

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 253 of 368

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9520339 A1	03-08-1995	AU 1464395 A WO 9520339 A1	15-08-1995 03-08-1995
US 6067724 A	30-05-2000	NONE	
US 3955064 A	04-05-1976	NONE	
US 2013025106 A1	31-01-2013	NONE	
US 6029307 A	29-02-2000	NONE	
US 2012152272 A1	21-06-2012	NONE	
US 6502585 B1	07-01-2003	NONE	
US 2008105274 A1	08-05-2008	NONE	
US 2008202545 A1	28-08-2008	NONE	

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 254 of 368

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25, 32-40

Handheld appliance

---

2. claims: 26-31

Handheld appliance

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 255 of 368

Information on Search Strategy - Pilot phase (see OJ 2015, A86)
The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number
PCT/GB2017/052427

TITLE: A HANDHELD HAIR CARE APPLIANCE

APPLICANT: DYSON TECHNOLOGY LIMITED

IPC CLASSIFICATION: A45D1/00, A45D20/12, A46B5/00

EXAMINER: Nicolás, Carlos

CONSULTED DATABASES: WPI

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: A45D1/00, A45D2001/002, A45D20/12, A46B5/0095, A45D1/04, A46B, A45D2

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:
Claims as filed

EPO FORM P06A42

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 256 of 368

Electronic Acknowledgement Receipt

EFS ID:	33266376
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Donna Bernecker
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800
Receipt Date:	24-JUL-2018
Filing Date:	29-AUG-2017
Time Stamp:	15:44:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	SB08_424662123800.pdf	38928 e41cd41382b12355337638d7b2d7a6f15febff62	no	3

Warnings:

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 257 of 368

Information:					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	WO_95_20339.pdf	10448244 dda495bc63e6b15405 1810fe12f83ba86c59a86c	no	64
Warnings:					
Information:					
3	Non Patent Literature	ISR_01-24-2018_PCTGB2017052427.pdf	531576 2d93da46478dc2300b39b720c8034c3562359592	no	5
Warnings:					
Information:					
			Total Files Size (in bytes):	11018748	

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 a 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.

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/689,705	08/29/2017	Daniel John THOMPSON	424662123800

CONFIRMATION NO. 7883

25227
MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

37 CFR 1.48(f)
ACKNOWLEDGEMENT LETTER

OC000000097814017

Date Mailed: 03/06/2018

NOTICE OF ACCEPTANCE OF REQUEST UNDER 37 CFR 1.48(f)

This is in response to the applicant's request under 37 CFR 1.48(f) submitted on 03/02/2018.

The request under 37 CFR 1.48(f) to correct the inventorship, to correct or update the name of an inventor, or to correct the order of names of joint inventors is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ggasgedom/

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 259 of 368

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/689,705	08/29/2017	3776	3340	424662123800	40	2

CONFIRMATION NO. 7883

UPDATED FILING RECEIPT

25227
MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

OC000000097814015

Date Mailed: 03/06/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Daniel John THOMPSON, Bristol, UNITED KINGDOM;
Lauren Elise FAIRHOLM, Toronto, CANADA;

Applicant(s)

Dyson Technology Limited, Wiltshire, UNITED KINGDOM;

Assignment For Published Patent Application

Dyson Technology Limited, Wiltshire, UNITED KINGDOM

Power of Attorney: The patent practitioners associated with Customer Number 25227

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
UNITED KINGDOM 1614825.6 09/01/2016 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

Projected Publication Date: Not Applicable

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 260 of 368

Non-Publication Request: No

Early Publication Request: No

Title

HAND HELD APPLIANCE

Preliminary Class

132

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 261 of 368

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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Doc Code: R48.REQ
Document Description: Request under Rule 48 correcting inventorship

PTO/AIA/40 (04-15)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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REQUEST FOR CORRECTION IN A PATENT APPLICATION RELATING TO INVENTORSHIP OR AN INVENTOR NAME, OR ORDER OF NAMES, OTHER THAN IN A REISSUE APPLICATION (37 CFR 1.48)

Application Number	15/669,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Art Unit	3776
Examiner Name	Todd E. Manahan
Practitioner Docket Number	42466-21238.00

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

Applicant hereby **requests that the inventorship be corrected or changed, or that the name of the inventor or a joint inventor, or the order of the names of joint inventors, be changed,** in the above-identified application. **Note**: 37 CFR 1.48 applies to any request to correct inventorship filed on or after September 16, 2012, regardless of the application filing date. **Do not submit this form after payment of the issue fee or if the application has been patented.** See 37 CFR 1.324 for correction of inventorship in a patent.

Please check the applicable box(es) below.

For a nonprovisional application:

☐ 1. This request is to correct or change the inventorship in a **nonprovisional** application (**under 37 CFR 1.48(a)**) and includes:

☐ An application data sheet (ADS) in accordance with 37 CFR 1.76(c) with the corrected or updated information shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). See the Manual of Patent Examining Procedure (MPEP) section 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).

☐ The processing fee set forth in 37 CFR 1.17(i). $ _____

☐ An inventor is being added. An inventor's oath or declaration by any actual inventor who has not yet executed an oath or declaration is required (see 37 CFR 1.48(b)). See MPEP 602.01(a) for information about an inventor's oath or declaration for an application filed on/after September 16, 2012 (*e.g.*, form **PTO/AIA/01**). For information about an inventor's oath or declaration for an application filed before September 16, 2012 (*e.g.*, form **PTO/SB/01**), see MPEP 602.01(b).

☐ This request is being filed after the first Office action on the merits has been given or mailed (see 37 CFR 1.48(c) and 1.17(d)). Check one of the following:

☐ This request to correct or change the inventorship is due solely to the cancellation of claims in the application.

OR

☐ The fee set forth in 37 CFR 1.17(d) is due (in addition to the fee set forth in 37 CFR 1.17(i)). $ _____

This collection of information is required by 37 CFR 1.48. 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 1.11 and 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.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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REQUEST FOR CORRECTION IN A PATENT APPLICATION RELATING TO INVENTORSHIP OR AN INVENTOR NAME, OR ORDER OF NAMES, OTHER THAN IN A REISSUE APPLICATION (37 CFR 1.48)

☒ 2. This request is to correct or update the name of the inventor or a joint inventor, or the order of names of joint inventors, in a **nonprovisional** application (**under 37 CFR 1.48(f)**) and includes:

☒ An application data sheet in accordance with 37 CFR 1.76(c) identifying the complete inventive entity, including the corrected or updated name of the inventor, or the new order of names shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). See the MPEP 601.05(a) for information about filing an ADS in an application filed on/after September 16, 2012. For information about filing a Supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b).

☒ The processing fee set forth in 37 CFR 1.17(i). $ 140.00

For a provisional application:

☐ This request is to change or correct the inventorship, or correct or update the name of the inventor or a joint inventor, in a **provisional** application (**under 37 CFR 1.48(d)**) and includes:

☐ **Attached hereto** is a request, signed by a party set forth in 37 CFR 1.33(b), that identifies each inventor by his or her legal name, in the preferred order.

☐ The processing fee set forth in 37 CFR 1.17(q). $ _____

Fee Payment Information:

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 03-1952.

☒ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ Applicant*

☒ attorney or agent of record
Registration number 71,907

☐ attorney or agent acting under 37 CFR 1.34
Registration number _____

Signature /christopher gloria/

Typed or printed name Christopher Gloria

Date March 2, 2018

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. *Juristic entities must be represented by a patent practitioner (See 37 CFR 1.31, applicable to any paper filed on or after September 16, 2012 that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below**.

☐ ** Total of _____ forms are submitted.

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SharkNinja et al. v. Dyson Technology Limited,
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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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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.

CORRECTED ADS FORM

Application Number	15689705
Title of Invention	HAND HELD APPLIANCE

Inventor Information

****If no data is shown, no data has been corrected****

	Data of Record	Updated Data
Order Number	1	
Name	Daniel John THOMPSON	
Residence Information		
Residency	non-us-residency	
City	Bristol	
State		
Country of Residence	GB	
Mailing Address of Inventor		
Address 1	c/o Dyson Technology Limited	
Address 2	Tetbury Hill, Malmesbury	
City,State/Province, Postal Code	Wiltshire SN16 0RP	
Country	GB	

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Document Description: Application Data Sheet to update/correct info
Doc Code: ADS.CORR

	Data of Record	Updated Data
Order Number	2	
Name	~~Elise FAIRHOLM~~	Lauren Elise FAIRHOLM
Residence Information		
Residency	non-us-residency	
City	Toronto	
State		
Country of Residence	CA	
Mailing Address of Inventor		
Address 1	c/o Dyson Technology Limited	
Address 2	Tetbury Hill, Malmesbury	
City,State/Province, Postal Code	Wiltshire SN16 0RP	
Country	GB	

Application Information

	Data of Record	Updated Data
Title of Invention	HAND HELD APPLIANCE	
Attorney Docket Number	424662123800	
Entity Type	Regular Undiscounted	

Domestic Benefit/National Stage Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121,365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S. C. 119(e) or 120, and 37 CFR 1.78(a).

~~SharkNinja Ex. 1002~~
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		Data of Record	Updated Data
	Prior Application Status		
	Application Number		
	Continuity Type		
	Prior Application Number		
	Filing Date (YYYY-MM-DD)		
	Patent Number		
	Issue Date (YYYY-MM-DD)		

Foreign Priority Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

		Data of Record	Updated Data
	Application Number		
	Country		
	Filing Date		
	Access Code		

Applicant Information

****If no data is shown, no data has been corrected****
Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

	Data of Record	Updated Data
Applicant Type		

SharkNinja Ex. 1002
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If applicant is the legal representative, indicate the authority to file the patent application, the inventor is		
Name of the Deceased or Legally Incapacitated Inventor		
Applicant is an Organization		
Name		
Organization Name		
Address 1		
Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		
Email Address		

Assignee Information including Non-Applicant Assignee Information

****If no data is shown, no data has been corrected****
Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office

	Data of Record	Updated Data
Order		
Applicant is an Organization		
Name		

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Organization Name		

Mailing Address

Address 1		
Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		
Email Address		

Signature

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/christopher gloria/	Registration Number	71,907
First Name	Christopher	Last Name	Gloria

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Electronic Patent Application Fee Transmittal

Application Number:	15689705
Filing Date:	29-Aug-2017
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Attorney Docket Number:	424662123800

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**140**

Electronic Acknowledgement Receipt

EFS ID:	31943633
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	
Customer Number:	25227
Filer:	Christopher Elmose Gloria/Yesenia Rivera
Filer Authorized By:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800
Receipt Date:	02-MAR-2018
Filing Date:	29-AUG-2017
Time Stamp:	17:25:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$140
RAM confirmation Number	030518INTEFSW00003652031952
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	Declarations.pdf	160761 dc8bcfe5035b0a1fc15a081740303a7fbb3df6c8	no	2
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
2	Request under Rule 48 correcting inventorship	Request_to_Correct_Inventorship.pdf	165307 d1b507aaed56aa1126d19e4acc940d8d08a17ced	no	3
Warnings:					
Information:					
3	Application Data Sheet to update/ correct info	CorrectedADS.pdf	72799 b61403bae1b0f9b71536f8af468211f6d4c4f37d	no	5
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30420 a5fdcde954d08e31b6957f9667aff12b552f8581	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	429287		

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 a 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/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	HAND HELD APPLIANCE

As the below named inventor, I hereby declare that:

This declaration is directed to:
- [ ] The attached application, or
- [x] United States application or PCT international application number 15/689,705 filed on August 29, 2017 .

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Daniel John THOMPSON Date (Optional) : _____

Signature: _____

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Attorney Docket No. 424662123800
Client Reference No. USP1675A

va-502054

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	HAND HELD APPLIANCE

As the below named inventor, I hereby declare that:

This declaration is directed to:
- [ ] The attached application, or
- [x] United States application or PCT international application number 15/689,705 filed on August 29, 2017.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Lauren Elise FAIRHOLM Date (Optional): 19 Oct 2017

Signature: L. Elise Fairholm

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Attorney Docket No. 424662123800
Client Reference No. USP1675A

va-502054

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/689,705	08/29/2017	Daniel John THOMPSON	424662123800

CONFIRMATION NO. 7883

PUBLICATION NOTICE

25227
MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

OC00000097743768

Title:HAND HELD APPLIANCE

Publication No.US-2018-0055182-A1
Publication Date:03/01/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 278 of 368

ALTERNATIVE TO PTO/SB/08A/B
(Based on PTO 08-08 version)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	15/689,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Art Unit	3776
Examiner Name	Not Yet Assigned
Attorney Docket Number	424662123800

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-3,955,064	05-04-1976	Demetrio et al.	
	2.	US-4,034,201	07-05-1977	Walter et al.	
	3.	US-4,365,426	12-28-1982	Suzuki et al.	
	4.	US-4,851,641	07-25-1989	Barowski et al.	
	5.	US-2005/0284856	12-29-2005	Cafaro et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	6.	TW-M259504	03-21-2005	Jui-Chang VIANG	Figures only	
	7.	GB-1,131,427	10-23-1968	Sunbeam Corporation		
	8.	GB-1 456 000	11-17-1976	Sunbeam Corporation (William R. Hemrich et al.)		
	9.	GB-1 494 611	12-07-1977	Braun Aktiengesellschaft		
	10.	GB-1 530 360	10-25-1978	Braun Aktiengesellschaft		
	11.	GB-2 021 943	12-12-1979	Braun Aktiengesellschaft (Jürgen BÖHM et al.)		
	12.	JP-59-186505	10-23-1984	Panasonic Electric Works (Hirotaka JOSA)	Machine translation	x
	13.	JP-64-72706	03-17-1989	Matsushita Electric Works Ltd. (Hiroyuki TAGISHI et al.)	Machine translation	x
	14.	EP-0 250 992	01-07-1988	Braun Aktiengesellschaft (Dieter LIEBENTHAL.)	Corresponds with US 4,851,641 listed above	
	15.	EP-0 300 281	01-25-1989	Forfex Popp A Haarpflegegeraet (Frank POPP)	Machine translation	x
	16.	JP-6-237815	08-30-1994	Matsushita Electric Works Ltd. (Kazunori CHIYUUSAI)	Machine translation	x
	17.	JP-11-235224	08-31-1999	Rozen Star Kk (Eiji OTA)	Machine translation	x
	18.	JP-2001-353020	12-25-2001	Yodogawa Denki Seisakusho Kk (Kadotaka FUKUYAMA)	Machine translation	x
	19.	DE-102 39 716	03-11-2004	Braun Gmbh (Friedrich HENNINGER et al.)	Machine translation	x
	20.	JP-2007-105144	04-26-2007	Hitachi Maxell (Takenori OKAMURA et al.)	Machine translation	x

Examiner Signature		Date Considered	

va-505230

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(Based on PTO 08-08 version)

Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(Use as many sheets as necessary)*				***Complete if Known***	
				Application Number	15/689,705
				Filing Date	August 29, 2017
				First Named Inventor	Daniel John THOMPSON
				Art Unit	3776
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	424662123800

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	21.	Search Report mailed February 10, 2017, directed to GB Application No. 1614825.6; 1 page	

Examiner Signature		Date Considered	

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

[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.

va-505230

Electronic Acknowledgement Receipt

EFS ID:	30768387
Application Number:	15689705
International Application Number:	
Confirmation Number:	7883
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Customer Number:	25227
Filer:	Christopher Elmose Gloria
Filer Authorized By:	
Attorney Docket Number:	424662123800
Receipt Date:	26-OCT-2017
Filing Date:	29-AUG-2017
Time Stamp:	17:02:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Information_Disclosure_Statement.pdf	20068 652438e6911608c02845c8599a904a74c5235a53	no	2

Warnings:

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SharkNinja et al. v. Dyson Technology Limited,
IPR2024-00219 Page 281 of 368

Information:					
2	Foreign Reference	DE10239716A1.pdf	1508177 2e9535e3923586547 2b3b06ffd9fbabc7b5838f2	no	14
Warnings:					
Information:					
3	Foreign Reference	EP0250992A2.pdf	2461935 d5c41c7f7ce76bb23c4cfe0d687d18987013a7f7	no	11
Warnings:					
Information:					
4	Foreign Reference	EP0300281A1.pdf	1296536 ab5e608cd9ef6b82eb1f1dbc9edede242eb3e302	no	13
Warnings:					
Information:					
5	Foreign Reference	GB1131427A.pdf	1803227 79c57b4c0df18361bfbc87023d93abe0ff84e523	no	11
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Information:					
6	Foreign Reference	GB1456000A.pdf	1407969 ad73bdd32dd16da2c748b611ef404a024d1b96f1	no	7
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7	Foreign Reference	GB1494611A.pdf	1153299 c4cd5d8cf3cd6c8137fde0c1561ce5702ac71d1c	no	7
Warnings:					
Information:					
8	Foreign Reference	GB1530360A.pdf	940151 edbe40e0fc50f8e2e6cf8e6fc81d7a57d2a31ada	no	6
Warnings:					
Information:					

9	Foreign Reference	GB2021943A.pdf	808673 bddf43dc2401820d5af659ba7cbda724fa0d3598	no	6
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	GBSRGBP1675AP1.pdf	131617 2cdcdea7f5029f4fd86b217e8d2d947b6beaf69b	no	1
Warnings:					
Information:					
11	Foreign Reference	JP2001353020A.pdf	1051015 845332faa11a1ffd318b4bc5fdb095c7e8f8dfe0	no	12
Warnings:					
Information:					
12	Foreign Reference	JP2007105144A.pdf	1674634 5fabd843f858440eaee466770223198313b12f12	no	28
Warnings:					
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13	Foreign Reference	JPH06237815A.pdf	658360 e77d461ec025be0b2c75ac7b8ee0c74f6d45e4b9	no	10
Warnings:					
Information:					
14	Foreign Reference	JPH11235224A.pdf	864823 586bb52a2c9579d74cfaeec0fb3127d8f6b35dae	no	14
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15	Foreign Reference	JPS6472706A.pdf	1107310 9c6f6b3484e400648694f9ee2c56f536c5c3f029	no	18
Warnings:					
Information:					

16	Foreign Reference	TWM259504U.pdf	7356811 0f873c2f4669d7fa9bd8cf57a18e1ac0dac9c478	no	33
Warnings:					
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17	Foreign Reference	JPS59186505A.pdf	903869 3af885410824c040f9f0456f39fbd7907d9837bf	no	8
Warnings:					
Information:					
18	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	36090 fb5adf605d72234b94240568754055 9f4b4aa536	no	2
Warnings:					
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			Total Files Size (in bytes):	25184564	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a 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

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Docket No. 424662123800

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Daniel John THOMPSON et al.

Application No.: 15/689,705 | Confirmation No.: 7883

Filed: August 29, 2017 | Art Unit: 3776

For: HAND HELD APPLIANCE | Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & § 1.98

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

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of the foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

Concerning a brief explanation of relevancy of the teachings of the cited foreign prior art reference to the present invention 37 CFR 1.98 (a)(3)(i), Applicants indicate on the attached Form PTO/SB/08a/b that EP-0 250 992 corresponds to US Patent No. 4,851,641 (a US counterpart).

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IPR2024-00219 Page 285 of 368

This Information Disclosure Statement is submitted within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing (424662123800). However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: October 26, 2017

Respectfully submitted,

Electronic signature: /christopher gloria/
Christopher Gloria
Registration No.: 71,907
MORRISON & FOERSTER LLP
1650 Tysons Blvd, Suite 400
McLean, Virginia 22102
(703) 760-7389

va-505229

Intellectual Property Office

Concept House
Cardiff Road
Newport
South Wales
NP10 8QQ

Certified Office Copy

I, the undersigned, being an officer duly authorised in accordance with section 74(1) and (4) of the Deregulation & Contracting Out Act 1994 to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with patent application GB1614825.6 filed on 1 September 2016, and as stored electronically on the Patents Electronic Case file System.

The Patents Electronic Case-file System is compliant with British Standard BS10008 - Evidential weight and legal admissibility of information stored electronically and ISO15801 - Electronic imaging – information stored electronically, recommendations for trustworthiness and reliability.

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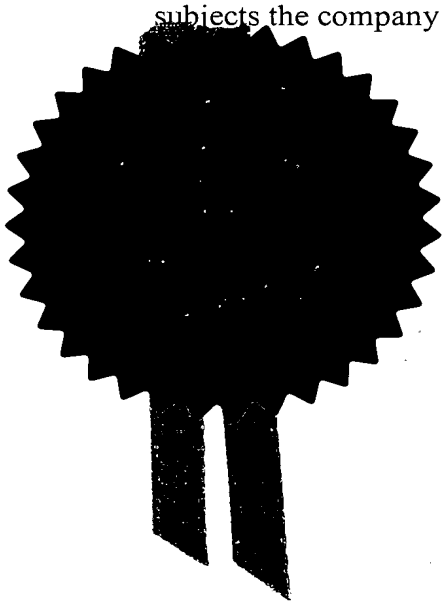

Signed Andrew Cressey

Dated 6 July 2017

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1016020397 D10033
01/09/2016 230.00 DepositAccount

Intellectual Property Office

Patents Form 1
Patents Act 1977 *(Rule 12)*

Request for grant of a patent

Concept House
Cardiff Road
Newport
South Wales
NP10 8QQ

Application number GB 1614825.6

1.	Your reference	**MJF_GBP1675A**
2.	Full name, address and postcode of the applicant or of each applicant	**DYSON TECHNOLOGY LIMITED** **Tetbury Hill** **Malmesbury SN16 0RP** **Wiltshire** **United Kingdom**
	Patents ADP number *(if you know it)*	11747151001
3.	Title of the invention	**A HANDHELD APPLIANCE**
4.	Name of your agent *(if you have one)*	**FOWLER, Maria Jayne**
	"Address for service" to which all correspondence should be sent. This may be in the European Economic area or Channel Islands (see warning note below) *(including the postcode)*	**FOWLER, Maria Jayne** **PO Box Dyson Technology Limited** **Intellectual Property Department** **Tetbury Hill** **Malmesbury SN16 0RP** **Wiltshire** **United Kingdom**
	Patents ADP number *(if you know it)*	08940744002

5. Priority declaration: Are you claiming priority from one or more earlier-filed patent applications? If so, please give details of the application(s)

Country	Application number	Date of filing	PDAS Access Code

6. Divisionals etc: Is this application a divisional application, or being made following resolution of an entitlement dispute about an earlier application. If so, please give the application number and filing date of the earlier application

Number of earlier UK application	Date of filing *(day / month / year)*

7. Inventorship: (Inventors must be individuals not companies)

Are all the applicants named above also inventors? **No**

8. Are you paying the application fee with this form? **Yes**

Patents Form 1

9. Accompanying documents: please enter the number of pages of each item accompanying this form.

Continuation sheets of this form

Description:	**16**
Claim(s):	**5**
Abstract:	**1**
Drawing(s):	**6**

If you are not filing a description, please give details of the previous application you are going to rely upon

Country	Application number	Date of filing	PDAS Access Code

10. If you are also filing any of the following, state how many against each item.

Priority documents:	**0**
Statement of inventorship and right to grant of a patent (Patents Form 7):	**0**
Request for search (Patents Form 9A):	**1**
Request for a substantive examination (Patents Form 10):	**1**
Any other documents (please specify):	

11. I/We request the grant of a patent on the basis of this application.

Signature: **Subject: Maria Fowler 28586; Issuer: European Patent Office, European Patent Office CA G2**

Date: **01 Sep 2016**

12. Name, e-mail address, telephone, fax and/or mobile number, if any, of a contact point for the applicant

Webb, Miss Hannah
Email: Hannah.Webb@dyson.com
Telephone: 01666 834258
Fax: 01666 828164

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After an application for a patent has been filed, the Comptroller will consider whether publication or communication of the invention should be prohibited or restricted under section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you are resident in the United Kingdom and your application contains information which relates to military technology, or would be prejudicial to national security or the safety of the public, section 23 of the Patents Act 1977 prohibits you from applying for a patent abroad without first getting written permission from the Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked. Until such time or until the revocation of any direction, for any such application the address for service referred to at part 4 above must be in the United Kingdom.

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A Handheld Appliance

This invention relates to a handheld appliance and in particular to a hair care appliance such as a hot styling device.

In a conventional hot styling appliance, air is drawn into an inlet by a fan unit and directed towards the hair by an outlet. Often, one appliance is provided with different attachments, each having a different outlet and thus a different function, for example drying, curling or volumising. Depending on the style desired, the air may or may not be heated. The attachment may include bristles onto which hair is wrapped and held for styling.

The appliance and attachments are provided with a connection mechanism which may or may not include an interlock to prevent the appliance being activated without an attachment provided. One problem is to provide a solid connection between the attachment and the appliance for when hair is under tension with an easily removable attachment when required.

Accordingly the invention provides a handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a slot and an actuator.

Preferably, the attachment comprises a protrusion adapted to engage with the slot.

In a preferred embodiment, the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot.

Preferably, in the first position the actuator at least partially obscures the slot.

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In a preferred embodiment, the actuator comprises a surface which interacts with the protrusion when the protrusion engages with the slot.

Preferably, the surface is adapted to at least partially define the slot at or near the second position.

In a preferred embodiment, when the protrusion is at a pre-determined position within the slot, the actuator returns towards the first position.

Preferably, the actuator is biased into the first position.

In a preferred embodiment, the actuator retains the attachment on the body.

Preferably, the body extends along a longitudinal axis and the slot extends both radially around and axially along the body.

In a preferred embodiment, the protrusion comprises a first face for engagement with the actuator.

Preferably, the first face engages with the surface of the actuator.

In a preferred embodiment, the body comprises a wall having an outer surface and an inner surface wherein the slot is a closed channel formed in the inner surface having a closed end defined by a recess formed at the end of the channel.

Preferably, the recess is defined by a wall of the slot.

In a preferred embodiment, the protrusion comprises a second face for engagement with the wall of the slot.

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Preferably, the second face is curved.

In a preferred embodiment, the actuator comprises a second surface which interacts with the protrusion when the protrusion engages with the recess.

Preferably, the body has a first end and a second end and the attachment mechanism is adjacent the second end.

In a preferred embodiment, the body comprises a wall having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

Preferably, the chamfer extends from the inner surface towards the outer surface. The chamfer extends from the inner surface of the wall towards the second end. Thus, at or near the second end, the wall is angled with respect to the longitudinal axis X-X of the body.

In a preferred embodiment, the attachment comprises a collar extending around the attachment wherein the protrusion extends from the collar. Preferably, the attachment comprises a the fluid outlet, a collar and between the fluid outlet and the collar a flange is provided and the flange extends radially outwards from both the fluid outlet and the collar.

Preferably, the attachment comprises a first end and a second end wherein the collar is adjacent the first end and the collar comprises a further chamfer. Preferably, the chamfer extends between the collar and the flange.

In a preferred embodiment, the chamfer is at the distal end of the collar from the first end of the attachment.

Preferably, the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

In a preferred embodiment, the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

A further aspect of the invention provides a handheld appliance having a body and an attachment, the body comprising an attachment mechanism wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end wherein the body comprises a wall having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

Preferably, the chamfer extends from the inner surface towards the outer surface of the wall.

Preferably, the attachment comprises a first end and a second end and a collar extends around the attachment adjacent the first end and the collar comprises a further chamfer. Preferably, between the fluid outlet of the attachment and the collar a flange is provided. Preferably, the chamfer extends between the collar and the flange.

In a preferred embodiment, the further chamfer is at the distal end of the collar from the first end of the attachment.

Preferably, the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

In a preferred embodiment, the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

Preferably, the appliance further comprises a user operated button which engages with the actuator.

In a preferred embodiment, actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

Preferably, the appliance comprises a second protrusion and a second slot.

In a preferred embodiment, the second protrusion and second slot are radially spaced from the protrusion and slot.

Preferably, the second protrusion is adapted to cooperate with the second slot but not the slot.

In a preferred embodiment, a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

Preferably, the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the slot or the third slot.

In a preferred embodiment, each of the protrusion, second protrusion, third protrusion and fourth protrusion are radially spaced around the attachment.

Preferably, each of the slot, second slot, third slot and the fourth slot are radially spaced around the body.

Preferably there are four protrusions and four slots. In a preferred embodiment, the four protrusions and four slots are equally radially spaced around the collar of the attachment and attachment collar of the body respectively. Preferably, one pair of protrusions and one pair of slots are smaller in at least one dimension than another pair of protrusions and one pair of slots. Preferably, a pair of protrusions or a pair of slots are formed diametrically opposite one another. In a preferred embodiment, the one pair of protrusions extend radially out from the collar a smaller distance than another pair of

protrusions and the one pair of slots extend radially within the inner surface of the wall of the body a smaller distance than another pair of slots.

This means that the attachment can only be positioned on the body in two orientations where the smaller pair of slots and protrusions are aligned.

Preferably, the appliance is a hair care appliance.

In a preferred embodiment, the hair care appliance is a hot styling appliance.

The invention will now be described by way of example, with reference to the accompanying drawings, of which:

Figures 1a and 1b show cross sections through an attachment mechanism according to the invention;

Figure 2 shows a side view of an actuator for an attachment mechanism according to the invention;

Figure 3 shows a side view of an attachment mechanism according to the invention;

Figure 4a shows a side view of an attachment;

Figure 4b shows an enlarged view of a protrusion used on the attachment of figure 4a;

Figure 5 shows an alternative cross section through an attachment mechanism according to the invention;

Figure 6a shows an enlarged view of a protrusion within a slot;

Figure 6b shows an enlarged view of a slot;

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Figure 7 shows a cross section through aside view of an attachment when attached to the appliance;

Figure 8 shows an enlarged portion of the attachment of Figure 7;

Figure 9 shows an appliance on which an attachment mechanism according to the invention can be utilised;

Figure 10 shows a cross section through another attachment mechanism according to the invention; and

Figure 11 shows a further appliance on which can be used with the attachment mechanism of Figure 10.

Figure 9 shows an example of a hot air styling device 10 together with attachment 20. In order to enable a user to create different styles and to give the appliance multi functionality, the attachment 20 is removable and can be replaced with an alternative attachment. In addition, the attachment 20 can be removed to allow easier storage of the appliance when not in use. The hot air styling device 10 comprises a body 210 having an outer wall which functions as a handle an fluid inlet 230 at first end 210a, fluid then flow through the body 210 and into the attachment 20 to a fluid outlet 26 from the attachment 20. At the fluid inlet 230 of the handle, an array of apertures 232 extends around and partially along the handle 220. Internally (not shown), is a fan unit which comprises a fan and a motor. In use, the motor drives the fan and air is drawn in through the apertures 232 of the fluid inlet 230, along an fluid flow path which extends within the body 210. The fluid is optionally heated by a heater (not shown) before exiting the hot air styling device at the fluid outlet 26. The appliance 10 may be connected to a power supply via a power cable or could house batteries within the body 210. In this embodiment, the fluid outlet 26 comprises a plurality of slots extending along the attachment 20 and radially around the attachment. The body 210 includes a

user interface 90 which typically includes an on-off button and temperature and/or flow control settings and a button 60 for releasing an attachment 20 from the body 210. In this embodiment, the user interface 90 and the button 60 are located approximately diametrically opposite one another on the body 210.

Referring to Figures 1a to 5, a portion of a handheld appliance 10 is shown. The appliance 10 includes a body 210 having a wall 220. The body 210 also functions as a handle. The body 210 has an attachment collar 230 and the attachment collar 230 includes at least a portion of the attachment mechanism, namely at least one slot 232 in the attachment collar 230 for engagement with at least one protrusion 30 provided on the attachment 20. In this example there are four slots and four protrusions. The attachment comprises the fluid outlet 26 and a collar 22 from which the at least one protrusion 30 extends. Between the fluid outlet 26 and the collar 22 is a flange 234 and the flange 234 extends radially outwards from both the fluid outlet 26 and the collar 22. The attachment 20 comprises a wall 24 having a radially inner surface 24a and a radially outer surface 24b and the at least one protrusion extends radially outwards from the outer surface 24b.

In order to secure the attachment 20 to the body 210, the attachment 20 is presented to the attachment collar 230 and turned until the at least one protrusion 30 aligns with the at least one slot 232.

Referring to Figures 7a and 7b in particular, each of the slots 232 has an opening 236 in an end face 242 of the attachment collar 230. The opening 236 is conveniently conical presenting a larger aperture than required at the end face 242 to facilitate entry of a protrusion into a slot. The slot 232 constantly curves around the attachment collar 230 thus, as the protrusion 30 is pushed into the slot 232 it automatically twists in the direction of the slot 232. The slot 232 extends radially around the body 210 and axially along the body 210.

A slot 232a includes an actuator 50 which is adapted to retain the attachment 20 on the body 210 until the user wishes to change the attachment or remove the attachment for storage purposes. The actuator 50 has a first part 52 which physically retains a protrusion 30 within slot 232a and a second part 54 which a user interacts with. The body 210 has a longitudinal axis X-X and the actuator 50 extends along this axis X-X. The first part 52 of the actuator 50 engages with the slot 232a and is movable with respect to the slot 232a. The first part 52 of the actuator 50 functions to retain the protrusion 30 in the slot 232a until the user moves the actuator 50 to allow the protrusion 30 to be removed from the slot 232a.

The body 210 includes a first aperture 110 which extends into the attachment collar 230 and a second aperture 212 which extends along the wall 220. The first aperture 110 is for housing the first part 52 of the actuator 50 and the second aperture 212 is for housing the second part 54 of the actuator 50 and a spring 214. The spring 214 extends between the distal end 54a of the second part 54 from attachment collar 230 and the distal end 212a of the second aperture 212 from the attachment collar 230. Retaining pips 216 are provided on the actuator 50 and second aperture 212 over which a respective end of the spring 214 is placed (spring not shown in Figure 3). The spring 214 biases the actuator 50 towards the attachment collar 232.

The second part 54 of the actuator 50 is, in this embodiment, rectangular and is provided with feet 56 which are adapted to engage with ledges 218 provided along two edges of the first aperture 212. This provides stability for the actuator 50 as it slides within the first aperture 212. The bias is overcome by a user sliding the actuator 50 against the force of the spring 214.

In order for a user to interact with the actuator 50, a button 60 is provided. The button 60 has a protrusion 62 which engages with a recess 58 within the second part 54 of the actuator 50. The body 210 has wall 220 in which the first aperture 212 for housing the actuator 50 is located. The body 210 also has an outer tube 222 which extends radially around the external periphery of the wall 220 and it is the outer tube 222 that a user

holds. The outer tube 222 includes another aperture 224 through which the button 60 extends so it can be activated by a user. The button 60 is typically glued to the actuator 50.

Referring in particular to Figure 2, the actuator 50 will be described in more detail. As previously described, the second part 54 of the actuator is generally rectangular. The first part 52 has a number of different regions. The first part 52 is smaller in cross section than the second part 54 firstly, as it moves within a slot 232 the first part 52 determines the size of the slot 232 and hence the size of the protrusion 30 which engages the slot 232. Secondly, the second part 54 provides a platform for a button 60 and for the user to engage with so a wider part is more stable.

The first part 52 has a first side 52a which extends along the length of the first part 52 and is aligned with the longitudinal axis X-X of the body 210. The first part 52 has a first region 150 which extends from the second part 54 and is generally rectangular and narrower that the second part 54.

A second region 152 extends from the first region 150 and has one side 152a which is angled with respect to the longitudinal axis X-X causing the first part 52 to narrow in this second region 152 producing a wedge shape. The one side 152a is angled between 8 and 59° to the longitudinal axis X-X. Preferably, between 20 and 57° to the longitudinal axis X-X. More preferably between 30 and 40° to the longitudinal axis X-X. Most preferably, 33.3° to the longitudinal axis X-X.

A third region 154 extends from the second region 152 and has one side 154a which extends along the longitudinal axis X-X of the body 210. At the distal end of the first part 52 from the second part 54 a surface 156 is provided. The surface 156 is an end face of the actuator and is angled with respect to the first side 52a, which will be explained with reference to Figures 1a and 1b in particular.

The actuator 50 is also a non-uniform shape through the thickness of the actuator 50. Referring in particular to Figure 5, the second part 54 of the actuator 50 has a nominal thickness t_1 apart from recess 58 for accommodating the protrusion 62 of button 60. The first part 52 is initially thinner t_2 than the second part 54 then towards the surface 156 of the actuator it thickens t_3. The thin central section 80 moves through the first aperture 110 provided in the attachment collar 230. It is thin so the first aperture 110 can be small so the structural integrity of the attachment collar 230 is not compromised . The two thicker sections also provide stop features that inhibit movement of the actuator 50. The end wall 64 of the second part 54 of the actuator 50 formed at the junction between the first part 52 and the second part 54 of the actuator 50 by the reduction in thickness of the actuator 50 between the first part 52 and the second part 54 retains the second part 54 of the actuator 50 within the second aperture 212. Towards the surface 156 of the first part 52 of the actuator 50, the actuator thickens 66. In this example the increase in thickness is on an inner surface 52a of the first part 52 of the actuator 50. This prevents a user from sliding the first part 52 of the actuator 50 out of the first aperture 110.

The first aperture 110 in the attachment collar 230 is a guiding channel which, along with the stop features – end wall 64 and localised thickening 66 – maintains the actuator within a housing formed by the attachment collar 230, second aperture 212 and outer tube 222.

Figure 1a shows the attachment 20 when attached to the body 210. Figure 1b shows the attachment 20 either being attached or detached from the body 210. Due to the action of the spring 214 the actuator is biased into a first position, shown in Figure 1a, where the end wall 64 of the second part 54 of the actuator 50 is adjacent the attachment collar 230 and the first part 52 of the actuator 50 obscures the slot 232a.

The surface 156 of the actuator 50 is angled with respect to the longitudinal axis X-X of the body 210 and mimics the curve of the slot 232a. Thus, as the protrusion 30 is pushed into the slot 232a, the actuator 50 is pushed along the longitudinal axis X-X of

the body 210 towards a second position (Figure 1b). This opens the slot 232a and enables the protrusion 30 to enter the slot 232a. Once the protrusion 30 has passed the surface 156 of the actuator 50 the actuator returns towards the first position.

Each slot 232, 232a is a closed channel within an inner surface 220a of the wall 220 and is located within the attachment collar 230. The slot 232a has an opening 236 for receiving a protrusion 30 and it curves along and partially around the circumference of the attachment collar 230 to an end 238 of the channel. The end 238 of the channel provides a recess 240 adapted to receive a protrusion 30. The recess 240 is defined by a wall 130 of the slot 232a.

In the first position, the actuator 50 prevents the protrusion 30 from being removed from the slot 232a as the second region 152 of the actuator 50 and in particular the one side 152a which is angled pushes the protrusion 30 towards the end 238 and into the recess 240.

In order to remove an attachment 20, a user slides the button 60 away from the attachment collar 230. This causes the actuator 50 to move within the second aperture 212 against the biasing force of the spring 214 and moves the first part 52 of the actuator 50 with respect to the slot 232a until the slot 232a is no longer obscured by the actuator 50 and the protrusion 30 can move along the slot 232a towards the slot opening 236.

The protrusion has a first face 32 which engages with the actuator 50 when it is presented to the slot 232a. The protrusion has a second curved face 34 which is shaped and sized to fit within the recess 240. In this example, the protrusion 30 has the shape of a teardrop. The attachment 20 has a longitudinal axis Y-Y which is parallel to the longitudinal axis X-X of the body 210 when attached thereto. The first face 32 of the protrusion 30 is parallel with the longitudinal axis Y-Y of the attachment 20.

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Having a curved slot 232, 232a is advantageous over a traditional bayonet fitting. A bayonet fitting has two sections which are angled with respect to one another and the user pushes along a first axis and then twists about a second axis to cause attachment. This results in an attachment mechanism that is relatively large which relies on the path length and change in direction within the fitting to maintain attachment. In contrast, the curved slot of the present invention in conjunction with the actuator enables the user to push along a first axis only until the first face 32 of the protrusion 30 bypasses the one side 152a of the actuator 50 which is angled with respect to the longitudinal axis X-X. After this point, the biasing action of the spring 214 causes the first part 52 of the actuator 50 to move towards the slot opening 236 and pushes the protrusion 30 into the recess 240 formed in the slot 232a. Thus, the user only has to push the attachment 20 onto the body 210 a relatively short amount and then the actuator 50 completes the movement. Due to the action of the spring 214, the first part 52 of the actuator 50 pushes the protrusion 30 towards the recess 240.

In addition having the curved slot and actuator allows for a relatively short path length compared to traditional bayonet fittings so the attachment collar 232 may be significantly smaller; perhaps by a factor or two of three times shorter.

The use of an actuator 50 having the one side 152a which is angled also assists in the stability of the attachment 20 on the body 210. The actuator 50 and in particular the one side 152a pushes the protrusion 30 into the recess 240 at the end of the slot 232a and any differences in the size of the protrusion 50, slot 232a and actuator 50 are accounted for as the first part 52 of the actuator 50 will rest in slightly different positions with respect to the slot 232a dependent on these differences.

Another feature that can improve the stability of the attachment, will be discussed with reference to Figures 4b, 7 and 8 in particular. The attachment 20 and the attachment collar 230 on the body 210 have respective mating faces120a, 120b. The mating face 120a of the attachment 20 is angled with respect to the longitudinal axis Y-Y of the attachment. The mating face 120b of the attachment collar 230 is angled with respect to

the longitudinal axis X-X of the appliance. Both of the mating faces 120a, 120b are formed as chamfers 26, 222 which extend radially around the attachment 20 or attachment collar 230 respectively. In this embodiment the mating faces 120a, 120b have the same but opposite angle of inclination from the respective longitudinal axis of the attachment Y-Y or the appliance X-X. This is not essential, the angles must be opposite so they are coincident but they need not be the exact same angle. The angle can be between 15 and 75°, and is preferably 35 to 50° and more preferably around 40°. When an attachment 20 is presented to the body 210, the protrusions 30 first align with slots 232, 232a. The protrusions 30, once they are pushed passed the third region 154 of the first part 52 of the actuator 50 are automatically pushed towards the recess 240 formed at the end 238 of the channel by the second region 152 of the first part 52 of the actuator 50.

The body 210 has a first end 210a and a second end 210b and the attachment collar 230 which houses at least a portion of the attachment mechanism is adjacent the second end 210b. The body has a wall 220 having an outer surface 220b and an inner surface 220a and at the second end 210b, the wall 220 comprises a chamfer 222 extending around the inner surface 220a. The chamfer 222 extends from the inner surface 220a towards the outer surface 220b towards the second end 210b.

The attachment 20 has first end 20a which attaches to the body 210 and a second end 20b distal to the body 210. At the first end 20a, a collar 22 extends around the attachment 20. The protrusion 30 extends from the collar 22 and extends radially outwards from the outer surface 24b of the wall 24 of the attachment. Between the collar 22 and the fluid outlet 26 a flange 234 is provided. The flange 234 extends radially outwards from the outer surface 24b of the attachment 20. The collar 22 includes a further chamfer 26 which extends between the flange 234 and the collar 22. The further chamfer 26 extends from the collar 22 radially outwards and towards the second end 20b of the attachment 20. Thus the further chamfer 26 is oppositely inclined to the chamfer 222 so as to produce mating faces 120a, 120b. Therefore when the

attachment 20 is attached to the body 210 the chamfer 222 on the body 210 and the further chamfer 26 on the attachment 20 engage each other.

Whilst this further automatic twist of the attachment 20 with respect to the body 210 occurs, the mating faces 120a and 120b of the attachment 20 and attachment collar 230 engage radially around the attachment 20 and attachment collar 230 to further secure the attachment 20 to the body 210. The use of the actuator with different surfaces 156, 154a, 152a that engage with different faces 32, 34 of a protrusion 30 along with the mating faces 120a and 120b provide a self-tightening joint between the attachment 20 and the body 210 reduce wobble between the two when joined together. This is particularly useful for embodiments where hair is intended to wrap around the attachment during use as tangential forces can be applied to the joint formed between the attachment 20 and the body 210.

In the embodiment so far described, the attachment 20 can be attached to the body 210 in any orientation. For some embodiments, it may be desirable for the attachment to have fewer orientations. Referring now to Figures 10 and 11 the attachment 70 has a directed flow from a single fluid outlet 72. One way to achieve fewer orientations is to provide the protrusions 140, 142 and slots 144, 146 as matched pairs.

Referring now to Figure 10, a first pair of protrusions 140 extend further from the radially outer surface 24b of the collar 22 than a second pair of protrusions 142. Thus, the first pair of protrusions 140 protrude more than the second pair of protrusions 142. A first pair of slots 144 is formed by a channel which extends further radially into the inner surface 220a of the wall 220 than a second pair of slots 146. Thus, the first pair of slots 144 has a greater depth than the second pair of slots 146. Whilst the second pair of protrusions 142 will fit into either of the first and second pairs of slots 144, 146, the first pair of protrusions 140 will only fit into the first pair of slots 144. This thus limits the number of orientations of the attachment 20 with respect to the body 210 to two. Thus, the orientation can be limited to the single fluid outlet 72 being aligned with either button 60 or the user interface 90 providing a user with a comfortable position to hold

the appliance whilst being able to access the button 60 and user interface 90 without changing grip.

For the attachment shown in Figures 1 to 8, the flange 234 is an external feature that can be seen when the attachment 20 is attached to the body 210. In Figures 9 and 11, the flange is an internal feature which has been recessed within the thickness of the outer wall. Both embodiments fall within the scope of the invention.

The invention has been described in detail with respect to a hot styling device however, it is applicable to any appliance that draws in a fluid and directs the outflow of that fluid from the appliance.

The appliance can be used with or without a heater; the action of the outflow of fluid at high velocity has a drying effect.

The fluid that flows through the appliance is generally air, but may be a different combination of gases or gas and can include additives to improve performance of the appliance or the impact the appliance has on an object the output is directed at for example, hair and the styling of that hair.

The invention is not limited to the detailed description given above. Variations will be apparent to the person skilled in the art.

CLAIMS

1. A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a slot and an actuator, the attachment comprising a protrusion adapted to engage with the slot wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot.

2. An appliance according to claim 1, wherein in the first position the actuator at least partially obscures the slot.

3. An appliance according to claim 1 or claim 2, wherein the actuator comprises a surface which interacts with the protrusion when the protrusion engages with the slot.

4. An appliance according to any preceding claim, wherein the surface is adapted to at least partially define the slot at or near the second position.

5. An appliance according to any preceding claim, wherein when the protrusion is at a pre-determined position within the slot, the actuator returns towards the first position.

6. An appliance according to any preceding claim, wherein the actuator is biased into the first position.

7. An appliance according to claim 5 or claim 6, wherein the actuator retains the attachment on the body.

8. An appliance according to any preceding claim, wherein the body extends along a longitudinal axis and the slot extends both radially around and axially along the body.

9. An appliance according to any of claims 3 to 8, wherein the protrusion comprises a first face for engagement with the actuator.

10. An appliance according to claim 9, wherein the first face engages with the surface of the actuator.

11. An appliance according to any preceding claim, wherein the body comprises a wall having an outer surface and an inner surface wherein the slot is a closed channel formed in the inner surface having a closed end defined by a recess formed at the end of the channel.

12. An appliance according to claim 11, wherein the recess is defined by a wall of the slot.

13. An appliance according to claim 12, wherein the protrusion comprises a second face for engagement with the wall of the slot.

14. An appliance according to claim 13, wherein the second face is curved.

15. An appliance according to any of claims 11 to 14, wherein the actuator comprises a second surface which interacts with the protrusion when the protrusion engages with the recess.

16. An appliance according to any preceding claim, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. An appliance according to claim 16, wherein the body comprises a wall having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

18. An appliance according to claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

19. An appliance according to any preceding claim, wherein the attachment comprises a collar extending around the attachment wherein the protrusion extends from the collar.

20. An appliance according to claim 19, wherein the attachment comprises a first end and a second end wherein the collar is adjacent the first end and the collar comprises a further chamfer.

21. An appliance according to claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. An appliance according to claim 21, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. An appliance according to any of claims 19 to 22 when dependent on claim 17 or claim 18, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

24. An appliance according to any preceding claim, further comprising a user operated button which engages with the actuator.

25. An appliance according to claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. A handheld appliance having a body and an attachment, the body comprising an attachment mechanism wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end wherein the body comprises a wall

having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

27. An appliance according to claim 26, wherein the chamfer extends from the inner surface towards the outer surface towards the second end.

28. An appliance according to claim 26 or claim 27, wherein the attachment comprises a first end and a second end wherein and a collar extending around the attachment adjacent the first end and the collar comprises a further chamfer.

29. An appliance according to claim 28, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

30. An appliance according to claim 28 or claim 29, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. An appliance according to any of claims 28 to 30, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

32. An appliance according to any preceding claim, comprising a second protrusion and a second slot.

33. An appliance according to claim 23, wherein the second protrusion and second slot are radially spaced from the protrusion and slot.

34. An appliance according to claim 32 or claim 33, wherein the second protrusion is adapted to cooperate with the second slot but not the slot.

35. An appliance according to any of claims 32 to 34, wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. An appliance according to claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the slot or the third slot.

37. An appliance according to claim 35 or claim 36, wherein each of the protrusion, second protrusion, third protrusion and fourth protrusion are radially spaced around the attachment.

38. An appliance according to claim 37, wherein each of the slot, second slot, third slot and the fourth slot are radially spaced around the body.

39. An appliance according to any preceding claim, wherein the appliance is a hair care appliance.

40. An appliance according to claim 39, wherein the hair care appliance is a hot styling appliance.

ABSTRACT

A Handheld Appliance

Disclosed is a handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a slot and an actuator, the attachment comprising a protrusion adapted to engage with the slot wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot. In the first position the actuator may at least partially obscures the slot. The actuator comprises a surface which may interact with the protrusion when the protrusion engages with the slot. The surface may be adapted to at least partially define the slot at or near the second position. When the protrusion is at a pre-determined position within the slot, the actuator may return towards the first position. The actuator may be biased into the first position.

(Figure 1b)

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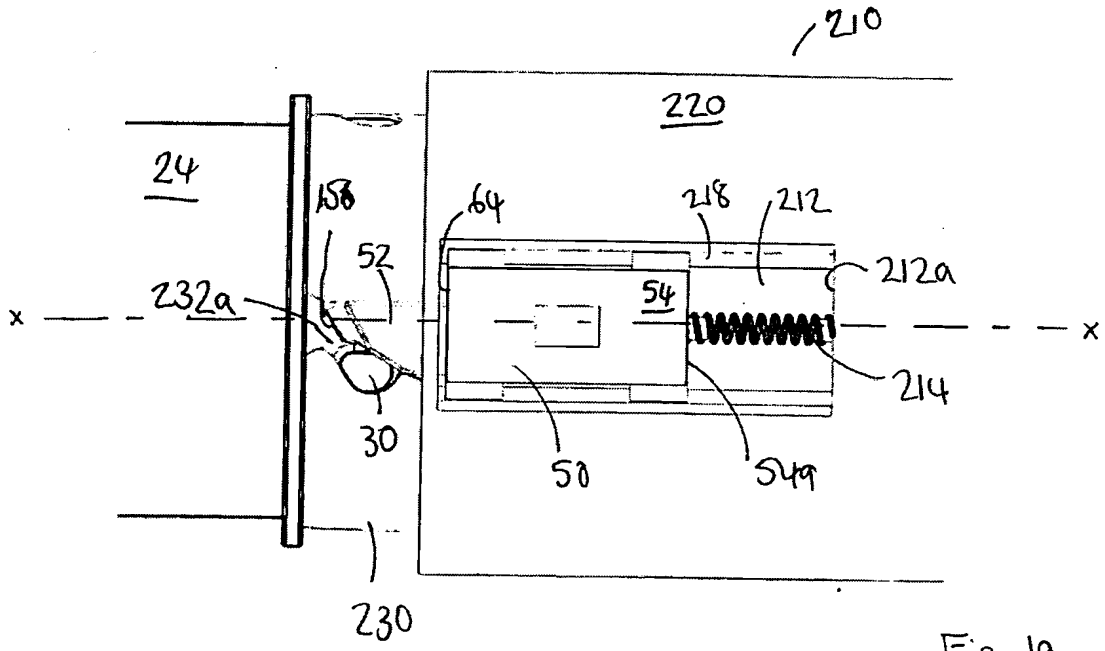

Fig. 1a

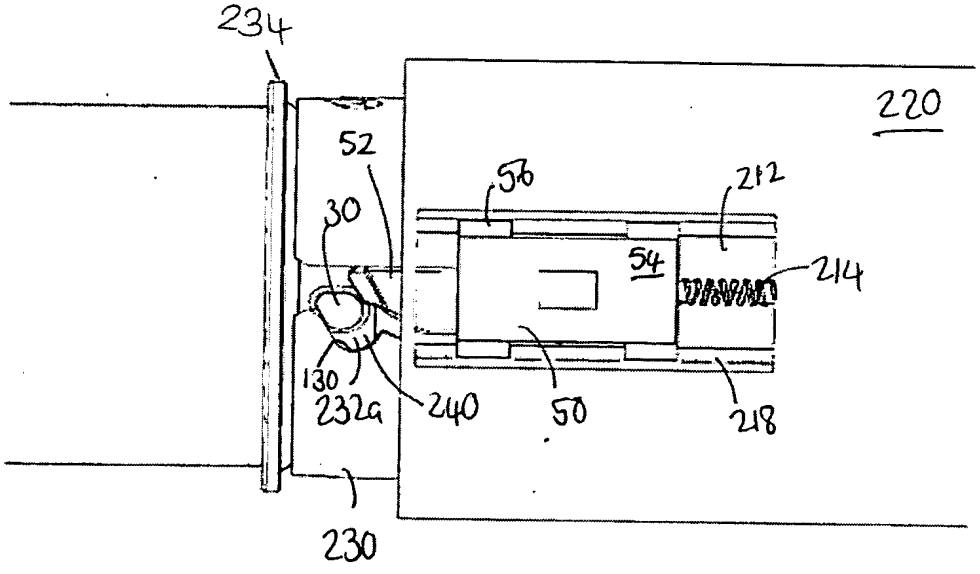

Fig. 1b

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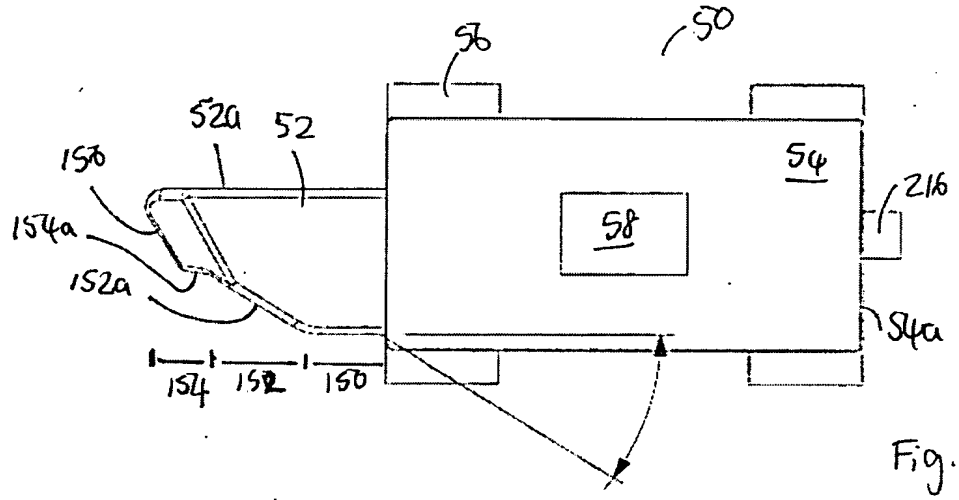

Fig. 2

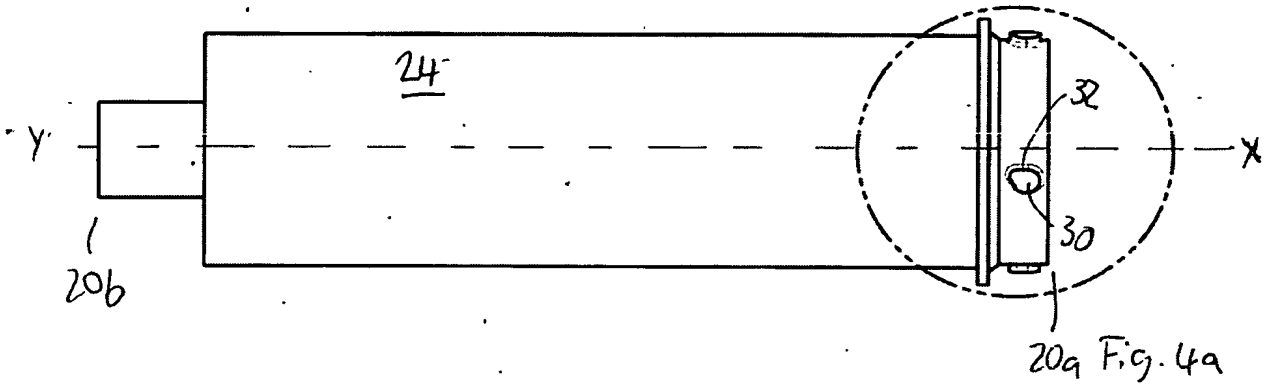

Fig. 4a

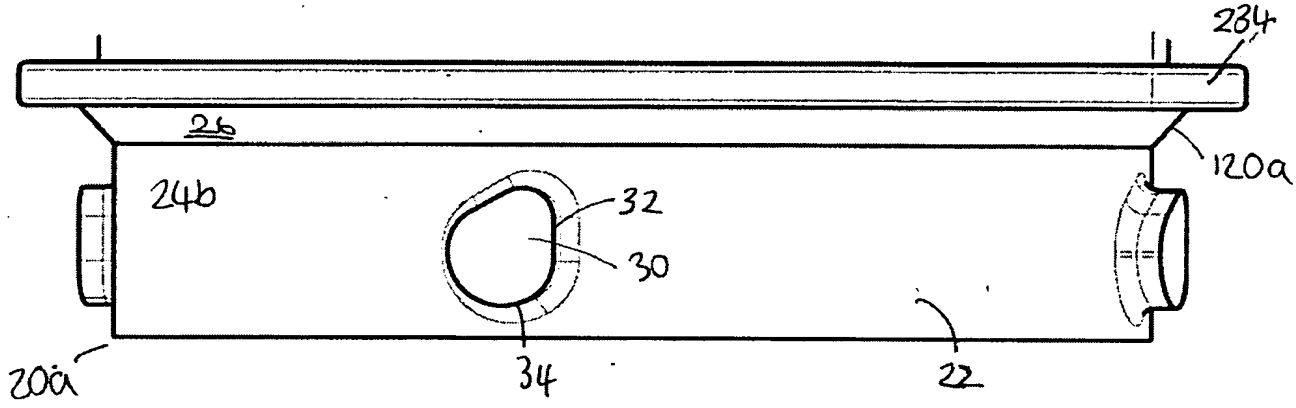

Fig. 4b

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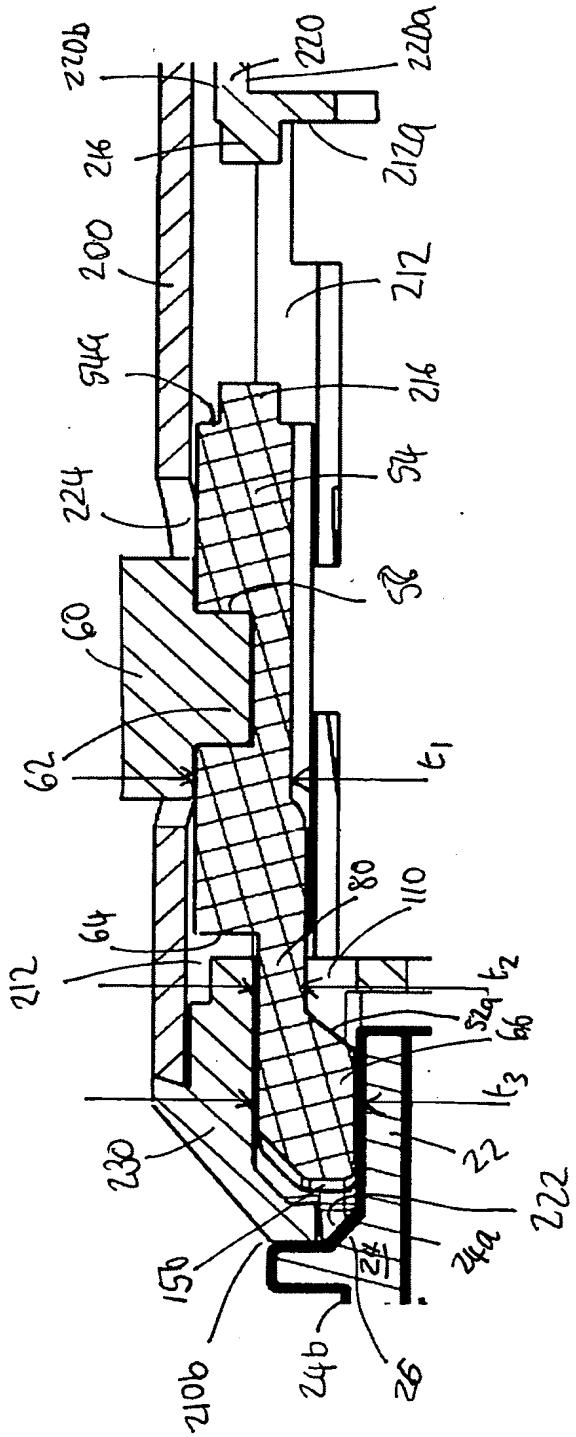
220b
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220a
216
212a
200
212
54a
216
54
224
58
60
62
t_1
80
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52a
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22
222
150
24a
24
210b
24b
26

Fig. 3

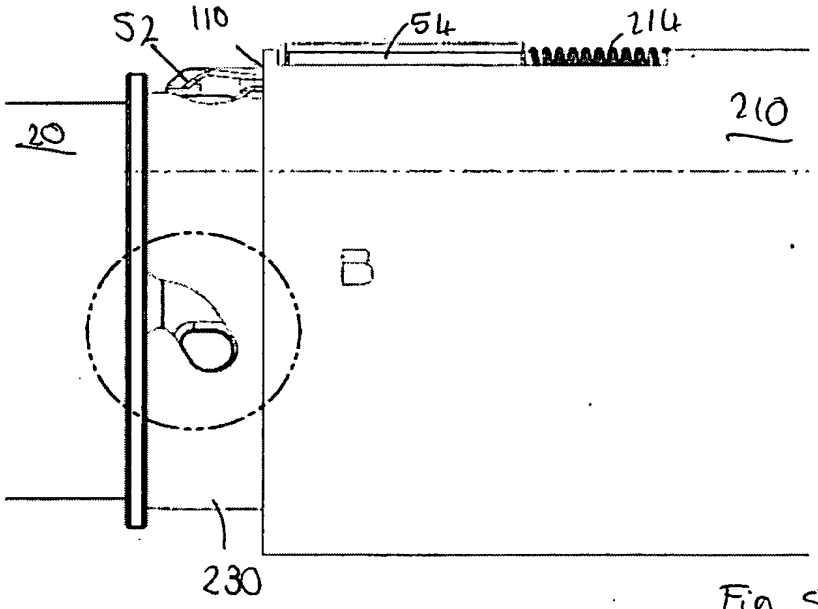

Fig. 5

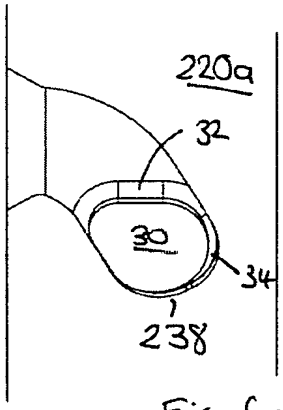

Fig. 6a

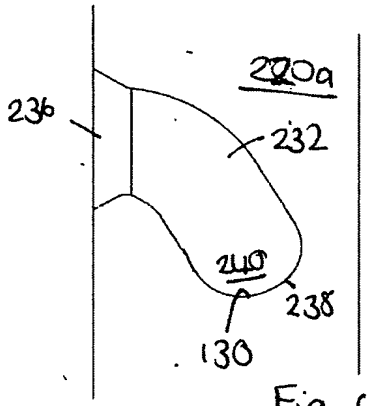

Fig. 6b

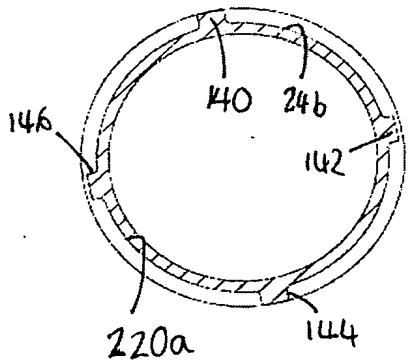

Fig. 10

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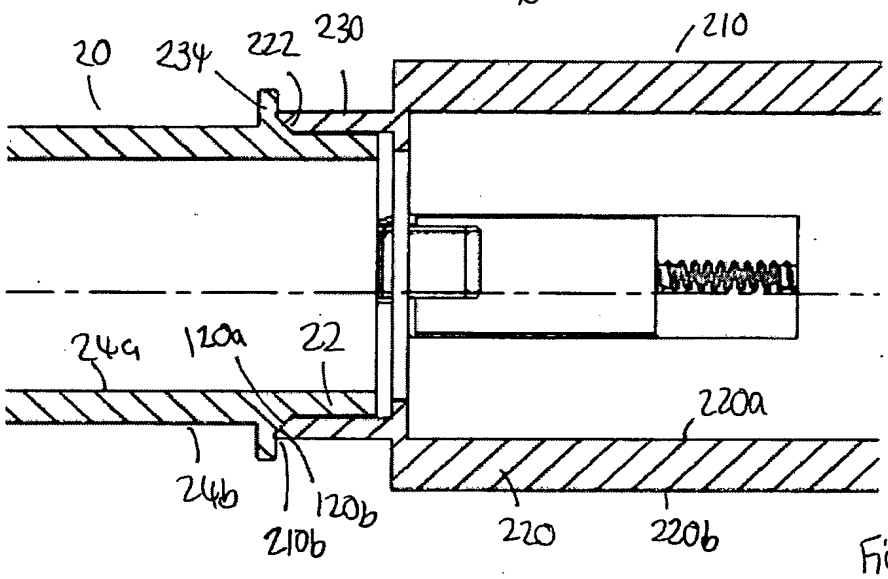

Fig. 7

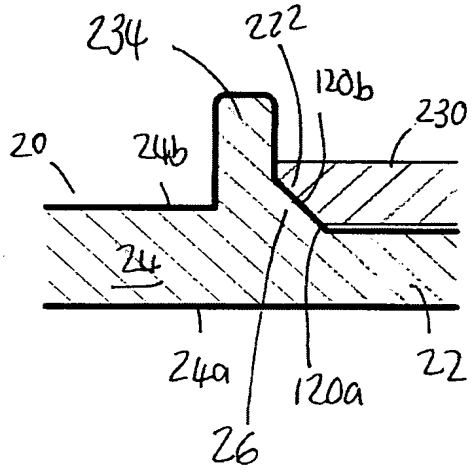

Fig. 8

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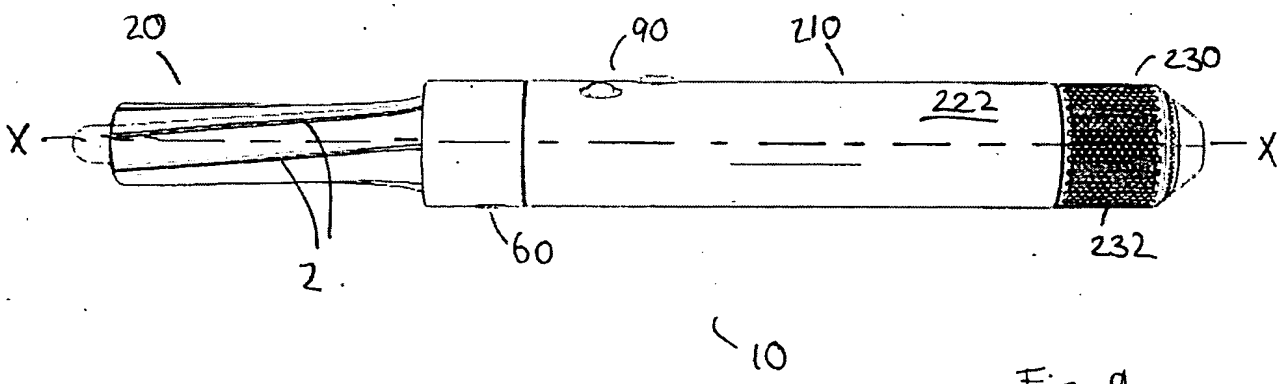

Fig. 9

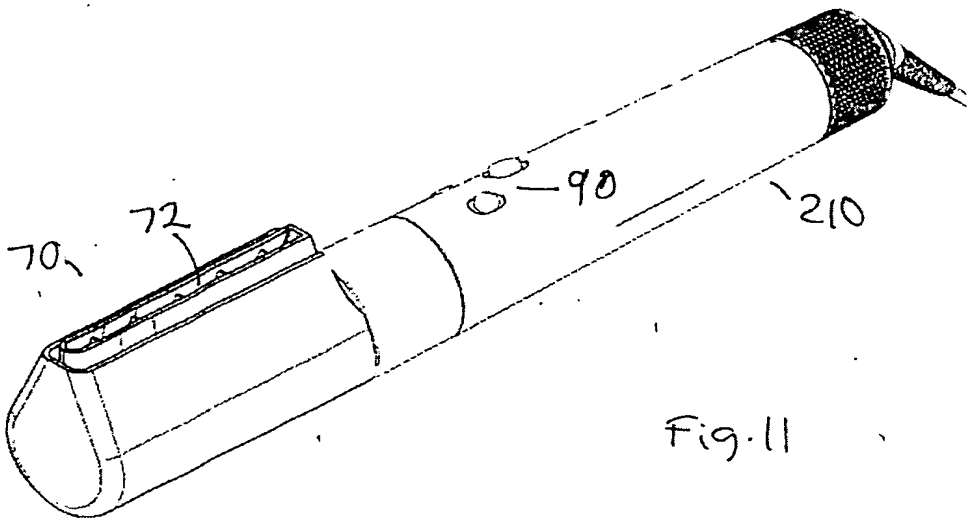

Fig. 11

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SEP 26 2017
PATENT & TRADEMARK OFFICE

Docket No.: 424662123800
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Daniel John THOMPSON et al.

Application No.: 15/689,705 Confirmation No.: 7883

Filed: August 29, 2017 Art Unit: 3776

For: HAND HELD APPLIANCE Examiner: Not Yet Assigned

CLAIM FOR PRIORITY AND SUBMISSION OF DOCUMENTS

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

Dear Sir:

Applicants hereby claim priority under 35 U.S.C. § 119 based on the following prior foreign application filed in the following foreign country on the date indicated:

Country	Application No.	Date
United Kingdom	1614825.6	September 1, 2016

In support of this claim, a certified copy of the said original foreign application is filed herewith.

Dated: September 26, 2017

Respectfully submitted,

By _____
Christopher Gloria
Registration No.: 71,907
MORRISON & FOERSTER LLP
1650 Tysons Blvd, Suite 400
McLean, Virginia 22102
(703) 760-7389

va-503665

OPAP AKIMA-3 SEP 26 2017 PATENT & TRADEMARK OFFICE

Doc Code: TRAN.LET
Document Description: Transmittal Letter

USED IN LIEU OF PTO/SB/21 (07-09)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	2

Application Number	15/689,705
Filing Date	August 29, 2017
First Named Inventor	Daniel John THOMPSON
Art Unit	3776
Examiner Name	Not Yet Assigned
Attorney Docket Number	424662123800

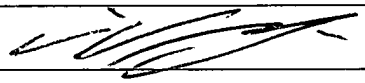
ENCLOSURES *(Check all that apply)*

- [ ] Fee Transmittal Form
  - [ ] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [x] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) (please Identify below):

Claim for Priority and Submission of Document (1 page)
Return Receipt Postcard

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MORRISON & FOERSTER LLP		
Signature			
Printed name	Christopher Gloria		
Date	September 26, 2017	Reg. No.	71,907

va-503664

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/689,705	08/29/2017	Daniel John THOMPSON	424662123800

CONFIRMATION NO. 7883

25227
MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

INFORMAL NOTICE

OC000000093920049

Date Mailed: 09/11/2017

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Daniel John THOMPSON
  Elise FAIRHOLM

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/amanalac/

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/689,705

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	40 minus 20 =	* 20			OR	x 80 =	1600
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 420 =	0.00
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).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	3200

APPLICATION AS AMENDED - PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** 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 found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/689,705	08/29/2017	2833	3340	424662123800	40	2

CONFIRMATION NO. 7883

FILING RECEIPT

25227
MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

OC000000093920048

Date Mailed: 09/11/2017

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Daniel John THOMPSON, Bristol, UNITED KINGDOM;
Elise FAIRHOLM, Toronto, CANADA;

Applicant(s)

Dyson Technology Limited, Wiltshire, UNITED KINGDOM;

Assignment For Published Patent Application

Dyson Technology Limited, Wiltshire, UNITED KINGDOM

Power of Attorney: The patent practitioners associated with Customer Number 25227

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.)
UNITED KINGDOM 1614825.6 09/01/2016 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

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If Required, Foreign Filing License Granted: 09/07/2017

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/689,705**

Projected Publication Date: 03/01/2018

Non-Publication Request: No

Early Publication Request: No

Title

HAND HELD APPLIANCE

Preliminary Class

439

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Daniel John THOMPSON
Title	HAND HELD APPLIANCE
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	424662123800

SIGNATURE of Applicant or Patent Practitioner

Signature	/christopher gloria/	Date (Optional)	August 29, 2017
Name	Christopher Gloria	Registration Number	71,907
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

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I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

[X] I hereby appoint Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 25227

OR

[ ] I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

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OR

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OR

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Address					
City		State		Zip	
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I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Dyson Technology Limited

[ ] Inventor or Joint Inventor (title not required below)

[ ] Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

[X] Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

[ ] Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	G.R. Smith	Date (Optional)	14. May. 2014
Name	Gillian R. Smith		
Title	Group IP Director, Dyson Technology Limited		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

[ ] Total of 1 forms are submitted.

HAND HELD APPLIANCE

REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the priority of United Kingdom Application No.1614825.6, filed September 1, 2016, the entire contents of which are incorporated herein by reference.

FIELD OF THE INVENTION

[0002] This invention relates to a handheld appliance and in particular to a hair care appliance such as a hot styling device.

BACKGROUND OF THE INVENTION

[0003] In a conventional hot styling appliance, air is drawn into an inlet by a fan unit and directed towards the hair by an outlet. Often, one appliance is provided with different attachments, each having a different outlet and thus a different function, for example drying, curling or volumising. Depending on the style desired, the air may or may not be heated. The attachment may include bristles onto which hair is wrapped and held for styling.

[0004] The appliance and attachments are provided with a connection mechanism which may or may not include an interlock to prevent the appliance being activated without an attachment provided. One problem is to provide a solid connection between the attachment and the appliance for when hair is under tension with an easily removable attachment when required.

SUMMARY OF THE INVENTION

[0005] According to some embodiments, the invention provides a handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a slot and an actuator.

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[0006] Preferably, the attachment comprises a protrusion adapted to engage with the slot.

[0007] In a preferred embodiment, the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot.

[0008] Preferably, in the first position the actuator at least partially obscures the slot.

[0009] In a preferred embodiment, the actuator comprises a surface which interacts with the protrusion when the protrusion engages with the slot.

[0010] Preferably, the surface is adapted to at least partially define the slot at or near the second position.

[0011] In a preferred embodiment, when the protrusion is at a pre-determined position within the slot, the actuator returns towards the first position.

[0012] Preferably, the actuator is biased into the first position.

[0013] In a preferred embodiment, the actuator retains the attachment on the body.

[0014] Preferably, the body extends along a longitudinal axis and the slot extends both radially around and axially along the body.

[0015] In a preferred embodiment, the protrusion comprises a first face for engagement with the actuator.

[0016] Preferably, the first face engages with the surface of the actuator.

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[0017] In a preferred embodiment, the body comprises a wall having an outer surface and an inner surface wherein the slot is a closed channel formed in the inner surface having a closed end defined by a recess formed at the end of the channel.

[0018] Preferably, the recess is defined by a wall of the slot.

[0019] In a preferred embodiment, the protrusion comprises a second face for engagement with the wall of the slot.

[0020] Preferably, the second face is curved.

[0021] In a preferred embodiment, the actuator comprises a second surface which interacts with the protrusion when the protrusion engages with the recess.

[0022] Preferably, the body has a first end and a second end and the attachment mechanism is adjacent the second end.

[0023] In a preferred embodiment, the body comprises a wall having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

[0024] Preferably, the chamfer extends from the inner surface towards the outer surface. The chamfer extends from the inner surface of the wall towards the second end. Thus, at or near the second end, the wall is angled with respect to the longitudinal axis X-X of the body.

[0025] In a preferred embodiment, the attachment comprises a collar extending around the attachment wherein the protrusion extends from the collar. Preferably, the attachment comprises a fluid outlet, a collar and between the fluid outlet and the collar a flange is provided and the flange extends radially outwards from both the fluid outlet and the collar.

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[0026] Preferably, the attachment comprises a first end and a second end wherein the collar is adjacent the first end and the collar comprises a further chamfer. Preferably, the chamfer extends between the collar and the flange.

[0027] In a preferred embodiment, the chamfer is at the distal end of the collar from the first end of the attachment.

[0028] Preferably, the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

[0029] In a preferred embodiment, the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

[0030] A further aspect of the invention provides a handheld appliance having a body and an attachment, the body comprising an attachment mechanism wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end wherein the body comprises a wall having an outer surface and an inner surface wherein at the second end, the wall comprises a chamfer extending around the inner surface.

[0031] Preferably, the chamfer extends from the inner surface towards the outer surface of the wall.

[0032] Preferably, the attachment comprises a first end and a second end and a collar extends around the attachment adjacent the first end and the collar comprises a further chamfer. Preferably, between the fluid outlet of the attachment and the collar a flange is provided. Preferably, the chamfer extends between the collar and the flange.

[0033] In a preferred embodiment, the further chamfer is at the distal end of the collar from the first end of the attachment.

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[0034] Preferably, the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

[0035] In a preferred embodiment, the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

[0036] Preferably, the appliance further comprises a user operated button which engages with the actuator.

[0037] In a preferred embodiment, actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

[0038] Preferably, the appliance comprises a second protrusion and a second slot.

[0039] In a preferred embodiment, the second protrusion and second slot are radially spaced from the protrusion and slot.

[0040] Preferably, the second protrusion is adapted to cooperate with the second slot but not the slot.

[0041] In a preferred embodiment, a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

[0042] Preferably, the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the slot or the third slot.

[0043] In a preferred embodiment, each of the protrusion, second protrusion, third protrusion and fourth protrusion are radially spaced around the attachment.

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[0044] Preferably, each of the slot, second slot, third slot and the fourth slot are radially spaced around the body.

[0045] Preferably there are four protrusions and four slots. In a preferred embodiment, the four protrusions and four slots are equally radially spaced around the collar of the attachment and attachment collar of the body respectively. Preferably, one pair of protrusions and one pair of slots are smaller in at least one dimension than another pair of protrusions and one pair of slots. Preferably, a pair of protrusions or a pair of slots is formed diametrically opposite one another. In a preferred embodiment, the one pair of protrusions extend radially out from the collar a smaller distance than another pair of protrusions and the one pair of slots extend radially within the inner surface of the wall of the body a smaller distance than another pair of slots.

[0046] This means that the attachment can only be positioned on the body in two orientations where the smaller pair of slots and protrusions are aligned.

[0047] Preferably, the appliance is a hair care appliance.

[0048] In a preferred embodiment, the hair care appliance is a hot styling appliance.

BRIEF DESCRIPTION OF THE DRAWINGS

[0049] The invention will now be described by way of example, with reference to the accompanying drawings, of which:

[0050] Figures 1a and 1b show cross sections through an attachment mechanism according to the invention;

[0051] Figure 2 shows a side view of an actuator for an attachment mechanism according to the invention;

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[0052] Figure 3 shows a side view of an attachment mechanism according to the invention;

[0053] Figure 4a shows a side view of an attachment;

[0054] Figure 4b shows an enlarged view of a protrusion used on the attachment of figure 4a;

[0055] Figure 5 shows an alternative cross section through an attachment mechanism according to the invention;

[0056] Figure 6a shows an enlarged view of a protrusion within a slot;

[0057] Figure 6b shows an enlarged view of a slot;

[0058] Figure 7 shows a cross section through aside view of an attachment when attached to the appliance;

[0059] Figure 8 shows an enlarged portion of the attachment of Figure 7;

[0060] Figure 9 shows an appliance on which an attachment mechanism according to the invention can be utilised;

[0061] Figure 10 shows a cross section through another attachment mechanism according to the invention; and

[0062] Figure 11 shows a further appliance which can be used with the attachment mechanism of Figure 10.

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DETAILED DESCRIPTION OF THE INVENTION

[0063] Figure 9 shows an example of a hot air styling device 10 together with attachment 20. In order to enable a user to create different styles and to give the appliance multi functionality, the attachment 20 is removable and can be replaced with an alternative attachment. In addition, the attachment 20 can be removed to allow easier storage of the appliance when not in use. The hot air styling device 10 comprises a body 210 having an outer wall which functions as a handle an fluid inlet 230 at first end 210a, fluid then flow through the body 210 and into the attachment 20 to a fluid outlet 26 from the attachment 20. At the fluid inlet 230 of the handle, an array of apertures 232 extends around and partially along the handle 220. Internally (not shown), is a fan unit which comprises a fan and a motor. In use, the motor drives the fan and air is drawn in through the apertures 232 of the fluid inlet 230, along an fluid flow path which extends within the body 210. The fluid is optionally heated by a heater (not shown) before exiting the hot air styling device at the fluid outlet 26. The appliance 10 may be connected to a power supply via a power cable or could house batteries within the body 210. In this embodiment, the fluid outlet 26 comprises a plurality of slots extending along the attachment 20 and radially around the attachment. The body 210 includes a user interface 90 which typically includes an on-off button and temperature and/or flow control settings and a button 60 for releasing an attachment 20 from the body 210. In this embodiment, the user interface 90 and the button 60 are located approximately diametrically opposite one another on the body 210.

[0064] Referring to Figures 1a to 5, a portion of a handheld appliance 10 is shown. The appliance 10 includes a body 210 having a wall 220. The body 210 also functions as a handle. The body 210 has an attachment collar 230 and the attachment collar 230 includes at least a portion of the attachment mechanism, namely at least one slot 232 in the attachment collar 230 for engagement with at least one protrusion 30 provided on the attachment 20. In this example there are four slots and four protrusions. The attachment comprises the fluid outlet 26 and a collar 22 from which the at least one protrusion 30 extends. Between the fluid outlet 26 and the collar 22 is a flange 234 and the flange 234 extends radially outwards from both the fluid outlet 26 and the collar 22.

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The attachment 20 comprises a wall 24 having a radially inner surface 24a and a radially outer surface 24b and the at least one protrusion extends radially outwards from the outer surface 24b.

[0065] In order to secure the attachment 20 to the body 210, the attachment 20 is presented to the attachment collar 230 and turned until the at least one protrusion 30 aligns with the at least one slot 232.

[0066] Referring to Figures 6a and 6b in particular, each of the slots 232 has an opening 236 in an end face 242 of the attachment collar 230. The opening 236 is conveniently conical presenting a larger aperture than required at the end face 242 to facilitate entry of a protrusion into a slot. The slot 232 constantly curves around the attachment collar 230, and thus, as the protrusion 30 is pushed into the slot 232 it automatically twists in the direction of the slot 232. The slot 232 extends radially around the body 210 and axially along the body 210.

[0067] A slot 232a includes an actuator 50 which is adapted to retain the attachment 20 on the body 210 until the user wishes to change the attachment or remove the attachment for storage purposes. The actuator 50 has a first part 52 which physically retains a protrusion 30 within slot 232a and a second part 54 which a user interacts with. The body 210 has a longitudinal axis X-X and the actuator 50 extends along this axis X-X. The first part 52 of the actuator 50 engages with the slot 232a and is movable with respect to the slot 232a. The first part 52 of the actuator 50 functions to retain the protrusion 30 in the slot 232a until the user moves the actuator 50 to allow the protrusion 30 to be removed from the slot 232a.

[0068] The body 210 includes a first aperture 110 which extends into the attachment collar 230 and a second aperture 212 which extends along the wall 220. The first aperture 110 is for housing the first part 52 of the actuator 50 and the second aperture 212 is for housing the second part 54 of the actuator 50 and a spring 214. The spring 214 extends between the distal end 54a of the second part 54 from attachment collar 230

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and the distal end 212a of the second aperture 212 from the attachment collar 230. Retaining pips 216 are provided on the actuator 50 and second aperture 212 over which a respective end of the spring 214 is placed (spring not shown in Figure 3). The spring 214 biases the actuator 50 towards the attachment collar 232.

[0069] The second part 54 of the actuator 50 is, in this embodiment, rectangular and is provided with feet 56 which are adapted to engage with ledges 218 provided along two edges of the first aperture 212. This provides stability for the actuator 50 as it slides within the first aperture 212. The bias is overcome by a user sliding the actuator 50 against the force of the spring 214.

[0070] In order for a user to interact with the actuator 50, a button 60 is provided. The button 60 has a protrusion 62 which engages with a recess 58 within the second part 54 of the actuator 50. The body 210 has wall 220 in which the first aperture 212 for housing the actuator 50 is located. The body 210 also has an outer tube 222 which extends radially around the external periphery of the wall 220 and it is the outer tube 222 that a user holds. The outer tube 222 includes another aperture 224 through which the button 60 extends so it can be activated by a user. The button 60 is typically glued to the actuator 50.

[0071] Referring in particular to Figure 2, the actuator 50 will be described in more detail. As previously described, the second part 54 of the actuator is generally rectangular. The first part 52 has a number of different regions. The first part 52 is smaller in cross section than the second part 54 firstly, as it moves within a slot 232 the first part 52 determines the size of the slot 232 and hence the size of the protrusion 30 which engages the slot 232. Secondly, the second part 54 provides a platform for a button 60 and for the user to engage with so a wider part is more stable.

[0072] The first part 52 has a first side 52a which extends along the length of the first part 52 and is aligned with the longitudinal axis X-X of the body 210. The first part 52

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has a first region 150 which extends from the second part 54 and is generally rectangular and narrower that the second part 54.

[0073] A second region 152 extends from the first region 150 and has one side 152a which is angled with respect to the longitudinal axis X-X causing the first part 52 to narrow in this second region 152 producing a wedge shape. The one side 152a is angled between 8 and 59° to the longitudinal axis X-X. Preferably, between 20 and 57° to the longitudinal axis X-X. More preferably between 30 and 40° to the longitudinal axis X-X. Most preferably, 33.3° to the longitudinal axis X-X.

[0074] A third region 154 extends from the second region 152 and has one side 154a which extends along the longitudinal axis X-X of the body 210. At the distal end of the first part 52 from the second part 54 a surface 156 is provided. The surface 156 is an end face of the actuator and is angled with respect to the first side 52a, which will be explained with reference to Figures 1a and 1b in particular.

[0075] The actuator 50 is also a non-uniform shape through the thickness of the actuator 50. Referring in particular to Figure 5, the second part 54 of the actuator 50 has a nominal thickness t1 apart from recess 58 for accommodating the protrusion 62 of button 60. The first part 52 is initially thinner t2 than the second part 54 then towards the surface 156 of the actuator it thickens t3. The thin central section 80 moves through the first aperture 110 provided in the attachment collar 230. It is thin so the first aperture 110 can be small so the structural integrity of the attachment collar 230 is not compromised. The two thicker sections also provide stop features that inhibit movement of the actuator 50. The end wall 64 of the second part 54 of the actuator 50 formed at the junction between the first part 52 and the second part 54 of the actuator 50 by the reduction in thickness of the actuator 50 between the first part 52 and the second part 54 retains the second part 54 of the actuator 50 within the second aperture 212. Towards the surface 156 of the first part 52 of the actuator 50, the actuator thickens 66. In this example the increase in thickness is on an inner surface 52a of the first part 52 of

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the actuator 50. This prevents a user from sliding the first part 52 of the actuator 50 out of the first aperture 110.

[0076] The first aperture 110 in the attachment collar 230 is a guiding channel which, along with the stop features – end wall 64 and localised thickening 66 – maintains the actuator within a housing formed by the attachment collar 230, second aperture 212 and outer tube 222.

[0077] Figure 1a shows the attachment 20 when attached to the body 210. Figure 1b shows the attachment 20 either being attached or detached from the body 210. Due to the action of the spring 214 the actuator is biased into a first position, shown in Figure 1a, where the end wall 64 of the second part 54 of the actuator 50 is adjacent the attachment collar 230 and the first part 52 of the actuator 50 obscures the slot 232a.

[0078] The surface 156 of the actuator 50 is angled with respect to the longitudinal axis X-X of the body 210 and mimics the curve of the slot 232a. Thus, as the protrusion 30 is pushed into the slot 232a, the actuator 50 is pushed along the longitudinal axis X-X of the body 210 towards a second position (Figure 1b). This opens the slot 232a and enables the protrusion 30 to enter the slot 232a. Once the protrusion 30 has passed the surface 156 of the actuator 50 the actuator returns towards the first position.

[0079] Each slot 232, 232a is a closed channel within an inner surface 220a of the wall 220 and is located within the attachment collar 230. The slot 232a has an opening 236 for receiving a protrusion 30 and it curves along and partially around the circumference of the attachment collar 230 to an end 238 of the channel. The end 238 of the channel provides a recess 240 adapted to receive a protrusion 30. The recess 240 is defined by a wall 130 of the slot 232a.

[0080] In the first position, the actuator 50 prevents the protrusion 30 from being removed from the slot 232a as the second region 152 of the actuator 50 and in particular

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the one side 152a which is angled pushes the protrusion 30 towards the end 238 and into the recess 240.

[0081] In order to remove an attachment 20, a user slides the button 60 away from the attachment collar 230. This causes the actuator 50 to move within the second aperture 212 against the biasing force of the spring 214 and moves the first part 52 of the actuator 50 with respect to the slot 232a until the slot 232a is no longer obscured by the actuator 50 and the protrusion 30 can move along the slot 232a towards the slot opening 236.

[0082] The protrusion has a first face 32 which engages with the actuator 50 when it is presented to the slot 232a. The protrusion has a second curved face 34 which is shaped and sized to fit within the recess 240. In this example, the protrusion 30 has the shape of a teardrop. The attachment 20 has a longitudinal axis Y-Y which is parallel to the longitudinal axis X-X of the body 210 when attached thereto. The first face 32 of the protrusion 30 is parallel with the longitudinal axis Y-Y of the attachment 20.

[0083] Having a curved slot 232, 232a is advantageous over a traditional bayonet fitting. A bayonet fitting has two sections which are angled with respect to one another and the user pushes along a first axis and then twists about a second axis to cause attachment. This results in an attachment mechanism that is relatively large which relies on the path length and change in direction within the fitting to maintain attachment. In contrast, the curved slot of the present invention in conjunction with the actuator enables the user to push along a first axis only until the first face 32 of the protrusion 30 bypasses the one side 152a of the actuator 50 which is angled with respect to the longitudinal axis X-X. After this point, the biasing action of the spring 214 causes the first part 52 of the actuator 50 to move towards the slot opening 236 and pushes the protrusion 30 into the recess 240 formed in the slot 232a. Thus, the user only has to push the attachment 20 onto the body 210 a relatively short amount and then the actuator 50 completes the movement. Due to the action of the spring 214, the first part 52 of the actuator 50 pushes the protrusion 30 towards the recess 240.

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[0084] In addition having the curved slot and actuator allows for a relatively short path length compared to traditional bayonet fittings so the attachment collar 232 may be significantly smaller; perhaps by a factor or two of three times shorter.

[0085] The use of an actuator 50 having the one side 152a which is angled also assists in the stability of the attachment 20 on the body 210. The actuator 50 and in particular the one side 152a pushes the protrusion 30 into the recess 240 at the end of the slot 232a and any differences in the size of the protrusion 50, slot 232a and actuator 50 are accounted for as the first part 52 of the actuator 50 will rest in slightly different positions with respect to the slot 232a dependent on these differences.

[0086] Another feature that can improve the stability of the attachment, will be discussed with reference to Figures 4b, 7 and 8 in particular. The attachment 20 and the attachment collar 230 on the body 210 have respective mating faces120a, 120b. The mating face 120a of the attachment 20 is angled with respect to the longitudinal axis Y-Y of the attachment. The mating face 120b of the attachment collar 230 is angled with respect to the longitudinal axis X-X of the appliance. Both of the mating faces 120a, 120b are formed as chamfers 26, 222 which extend radially around the attachment 20 or attachment collar 230 respectively. In this embodiment the mating faces 120a, 120b have the same but opposite angle of inclination from the respective longitudinal axis of the attachment Y-Y or the appliance X-X. This is not essential, the angles must be opposite so they are coincident but they need not be the exact same angle. The angle can be between 15 and 75°, and is preferably 35 to 50° and more preferably around 40°. When an attachment 20 is presented to the body 210, the protrusions 30 first align with slots 232, 232a. The protrusions 30, once they are pushed passed the third region 154 of the first part 52 of the actuator 50 are automatically pushed towards the recess 240 formed at the end 238 of the channel by the second region 152 of the first part 52 of the actuator 50.

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[0087] The body 210 has a first end 210a and a second end 210b and the attachment collar 230 which houses at least a portion of the attachment mechanism is adjacent the second end 210b. The body has a wall 220 having an outer surface 220b and an inner surface 220a and at the second end 210b, the wall 220 comprises a chamfer 222 extending around the inner surface 220a. The chamfer 222 extends from the inner surface 220a towards the outer surface 220b towards the second end 210b.

[0088] The attachment 20 has first end 20a which attaches to the body 210 and a second end 20b distal to the body 210. At the first end 20a, a collar 22 extends around the attachment 20. The protrusion 30 extends from the collar 22 and extends radially outwards from the outer surface 24b of the wall 24 of the attachment. Between the collar 22 and the fluid outlet 26 a flange 234 is provided. The flange 234 extends radially outwards from the outer surface 24b of the attachment 20. The collar 22 includes a further chamfer 26 which extends between the flange 234 and the collar 22. The further chamfer 26 extends from the collar 22 radially outwards and towards the second end 20b of the attachment 20. Thus the further chamfer 26 is oppositely inclined to the chamfer 222 so as to produce mating faces 120a, 120b. Therefore when the attachment 20 is attached to the body 210 the chamfer 222 on the body 210 and the further chamfer 26 on the attachment 20 engage each other.

[0089] Whilst this further automatic twist of the attachment 20 with respect to the body 210 occurs, the mating faces 120a and 120b of the attachment 20 and attachment collar 230 engage radially around the attachment 20 and attachment collar 230 to further secure the attachment 20 to the body 210. The use of the actuator with different surfaces 156, 154a, 152a that engage with different faces 32, 34 of a protrusion 30 along with the mating faces 120a and 120b provide a self-tightening joint between the attachment 20 and the body 210 reduce wobble between the two when joined together. This is particularly useful for embodiments where hair is intended to wrap around the attachment during use as tangential forces can be applied to the joint formed between the attachment 20 and the body 210.

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[0090] In the embodiment so far described, the attachment 20 can be attached to the body 210 in any orientation. For some embodiments, it may be desirable for the attachment to have fewer orientations. Referring now to Figures 10 and 11 the attachment 70 has a directed flow from a single fluid outlet 72. One way to achieve fewer orientations is to provide the protrusions 140, 142 and slots 144, 146 as matched pairs.

[0091] Referring now to Figure 10, a first pair of protrusions 140 extends further from the radially outer surface 24b of the collar 22 than a second pair of protrusions 142. Thus, the first pair of protrusions 140 protrudes more than the second pair of protrusions 142. A first pair of slots 144 is formed by a channel which extends further radially into the inner surface 220a of the wall 220 than a second pair of slots 146. Thus, the first pair of slots 144 has a greater depth than the second pair of slots 146. Whilst the second pair of protrusions 142 will fit into either of the first and second pairs of slots 144, 146, the first pair of protrusions 140 will only fit into the first pair of slots 144. This thus limits the number of orientations of the attachment 20 with respect to the body 210 to two. Thus, the orientation can be limited to the single fluid outlet 72 being aligned with either button 60 or the user interface 90 providing a user with a comfortable position to hold the appliance whilst being able to access the button 60 and user interface 90 without changing grip.

[0092] For the attachment shown in Figures 1 to 8, the flange 234 is an external feature that can be seen when the attachment 20 is attached to the body 210. In Figures 9 and 11, the flange is an internal feature which has been recessed within the thickness of the outer wall. Both embodiments fall within the scope of the invention.

[0093] The invention has been described in detail with respect to a hot styling device however, it is applicable to any appliance that draws in a fluid and directs the outflow of that fluid from the appliance.

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[0094] The appliance can be used with or without a heater; the action of the outflow of fluid at high velocity has a drying effect.

[0095] The fluid that flows through the appliance is generally air, but may be a different combination of gases or gas and can include additives to improve performance of the appliance or the impact the appliance has on an object the output is directed at for example, hair and the styling of that hair.

[0096] The invention is not limited to the detailed description given above. Variations will be apparent to the person skilled in the art.

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CLAIMS

1. A handheld appliance having a body and an attachment, the body comprising an attachment mechanism having a first slot and an actuator, the attachment comprising a first protrusion configured to engage with the first slot, wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the first protrusion engages with the first slot.

2. The appliance of claim 1, wherein in the first position, the actuator at least partially obscures the first slot.

3. The appliance of claim 1, wherein the actuator comprises a surface which interacts with the first protrusion when the first protrusion engages with the first slot.

4. The appliance of claim 3, wherein the surface is configured to at least partially define the first slot at or near the second position.

5. The appliance of claim 1, wherein when the first protrusion is at a pre-determined position within the first slot, the actuator returns towards the first position.

6. The appliance of claim 1, wherein the actuator is biased into the first position.

7. The appliance of claim 5, wherein the actuator retains the attachment on the body.

8. The appliance of claim 1, wherein the body extends along a longitudinal axis and the first slot extends both radially around and axially along the body.

9. The appliance of claim 3, wherein the first protrusion comprises a first face for engagement with the actuator.

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10. The appliance of claim 9, wherein the first face engages with the surface of the actuator.

11. The appliance of claim 1, wherein the body comprises a wall having an outer surface and an inner surface, and wherein the first slot is a closed channel formed in the inner surface and has a closed end defined by a recess formed at the end of the channel.

12. The appliance of claim 11, wherein the recess is defined by a wall of the first slot.

13. The appliance of claim 12, wherein the first protrusion comprises a second face for engagement with the wall of the first slot.

14. The appliance of claim 13, wherein the second face is curved.

15. The appliance of claim 11, wherein the actuator comprises a second surface which interacts with the first protrusion when the first protrusion engages with the recess.

16. The appliance of claim 1, wherein the body has a first end and a second end and the attachment mechanism is adjacent the second end.

17. The appliance of claim 16, wherein the body comprises a wall having an outer surface and an inner surface, and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

18. The appliance of claim 17, wherein the chamfer extends from the inner surface towards the outer surface.

19. The appliance of claim 1, wherein the attachment comprises a collar extending around the attachment and the first protrusion extends from the collar.

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20. The appliance of claim 19, wherein the attachment comprises a first end and a second end, the collar is adjacent the first end, and the collar comprises a chamfer.

21. The appliance of claim 20, wherein the chamfer is at the distal end of the collar from the first end of the attachment.

22. The appliance of claim 21, wherein the chamfer extends from the collar radially outwards and towards the second end of the attachment.

23. The appliance of claim 19, wherein the body has a first end and a second end, the attachment mechanism is adjacent the second end, the body comprises a wall having an outer surface and an inner surface, and at the second end, the wall comprises a chamfer extending around the inner surface, and wherein the attachment has a further chamfer that engages the chamfer of the body as the attachment is attached to the body.

24. The appliance of claim 1, further comprising a user operated button which engages with the actuator.

25. The appliance of claim 24, wherein actuation of the button moves the actuator from the first position to the second position to facilitate removal of an attachment from the body.

26. A handheld appliance having a body and an attachment, the body having a first end and a second end and comprising an attachment mechanism adjacent the second end, wherein the body comprises a wall having an outer surface and an inner surface, and wherein at the second end, the wall comprises a chamfer extending around the inner surface.

27. The appliance of claim 26, wherein the chamfer extends from the inner surface towards the outer surface towards the second end.

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28. The appliance of claim 26, wherein the attachment comprises a first end, a second end, a collar extending around the attachment adjacent the first end, and the collar comprises a further chamfer.

29. The appliance of claim 28, wherein the further chamfer is at the distal end of the collar from the first end of the attachment.

30. The appliance of claim 28, wherein the further chamfer extends from the collar radially outwards and towards the second end of the attachment.

31. The appliance of claim 28, wherein the chamfer on the body and the further chamfer on the attachment engage each other as the attachment is attached to the body.

32. The appliance of claim 1, comprising a second protrusion and a second slot.

33. The appliance of claim 32, wherein the second protrusion and second slot are radially spaced from the first protrusion and the first slot.

34. The appliance of claim 32, wherein the second protrusion is configured to cooperate with the second slot but not the first slot.

35. The appliance of claim 32, wherein a third protrusion and a fourth protrusion and a third slot and a fourth slot are provided.

36. The appliance of claim 35, wherein the fourth protrusion is adapted to cooperate with the second slot or the fourth slot but not the first slot or the third slot.

37. The appliance of claim 35, wherein each of the first protrusion, the second protrusion, the third protrusion, and the fourth protrusion are radially spaced around the attachment.

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38. The appliance of claim 37, wherein each of the first slot, the second slot, the third slot, and the fourth slot are radially spaced around the body.

39. The appliance of claim 1, wherein the appliance is a hair care appliance.

40. The appliance of claim 39, wherein the hair care appliance is a hot styling appliance.

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ABSTRACT OF THE DISCLOSURE

A handheld appliance having a body and an attachment, the body includes an attachment mechanism having a slot and an actuator, the attachment including a protrusion adapted to engage with the slot wherein the actuator has a first position and a second position and the actuator is moved from the first position towards the second position as the protrusion engages with the slot. In the first position the actuator may at least partially obscures the slot. The actuator includes a surface which may interact with the protrusion when the protrusion engages with the slot. The surface may be adapted to at least partially define the slot at or near the second position. When the protrusion is at a pre-determined position within the slot, the actuator may return towards the first position. The actuator may be biased into the first position.

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Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	HAND HELD APPLIANCE
First Named Inventor/Applicant Name:	Daniel John THOMPSON
Filer:	Christopher Elmose Gloria
Attorney Docket Number:	424662123800

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	280	280
UTILITY SEARCH FEE	1111	1	600	600
UTILITY EXAMINATION FEE	1311	1	720	720
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	20	80	1600
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	140	140

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**3340**

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1	Application Data Sheet	ADS.PDF	1822698 d848c07587da32718e60de003a9ece663f151423	no	8
Warnings:					
Information:					
2	Drawings-only black and white line drawings	4246621238001675AFormalDrawings.pdf	2519880 7ebb68dd59355c981473bb9c7e3a6b8042f36f0d	no	6
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Warnings:					
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4		Spec.pdf	87599 8d92886232df7dff7e3dfb99069f008a50db39dc	yes	23

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	17
Claims	18	22
Abstract	23	23

Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	37850 f731152b2ae397a37c6e9c6a91a3906c8e48329f	no	2

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Information:	
Total Files Size (in bytes):	11878167

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 a 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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Daniel	John	THOMPSON	

Residence Information (Select One) US Residency ● Non US Residency Active US Military Service

City	Bristol	Country of Residence [i]	GB

Mailing Address of Inventor:

Address 1	c/o Dyson Technology Limited
Address 2	Tetbury Hill, Malmesbury
City	Wiltshire
State/Province	
Postal Code	SN16 0RP
Country [i]	GB

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Elise		FAIRHOLM	

Residence Information (Select One) US Residency ◉ Non US Residency Active US Military Service

City	Toronto	Country of Residence [i]	CA

Mailing Address of Inventor:

Address 1	c/o Dyson Technology Limited
Address 2	Tetbury Hill, Malmesbury
City	Wiltshire
State/Province	
Postal Code	SN16 0RP
Country [i]	GB

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	25227		
Email Address	patentdocket@mofo.com	Add Email	Remove Email

Application Information:

Title of the Invention	HAND HELD APPLIANCE		
Attorney Docket Number	424662123800	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	25227		

SharkNinja Ex. 1002
SharkNinja et al. v. Dyson Technology Limited,
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status [ ] Remove

Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)
1614825.6	GB	2016-09-01	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 — Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Dyson Technology Limited		
Mailing Address Information For Applicant:			
Address 1	Tetbury Hill, Malmesbury		
Address 2			
City	Wiltshire	**State/Province**	
Country	GB	Postal Code	SN16 0RP
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒

Organization Name	Dyson Technology Limited

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	Tetbury Hill, Malmesbury		
Address 2			
City	Wiltshire	**State/Province**	
Country i	GB	Postal Code	SN16 0RP
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/christopher gloria/			Date (YYYY-MM-DD)	2017-08-29
First Name	Christopher	Last Name	Gloria	Registration Number	71907

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	424662123800
	Application Number	
Title of Invention	HAND HELD APPLIANCE	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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 records.

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 CooperationTreaty.

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.

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SharkNinja et al. v. Dyson Technology Limited,
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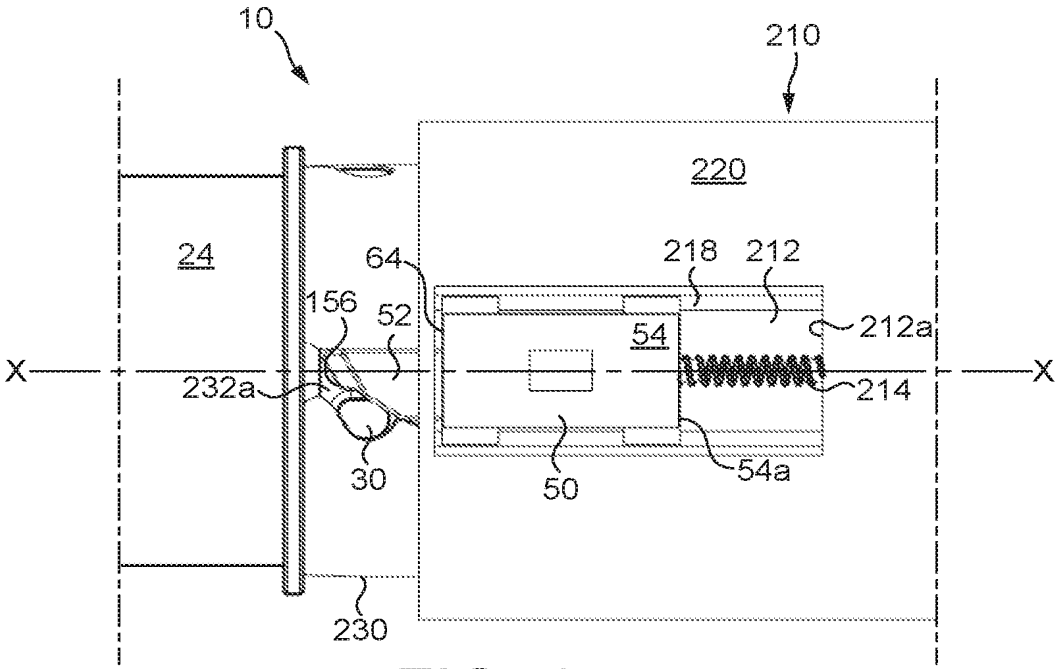
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FIG. 1a

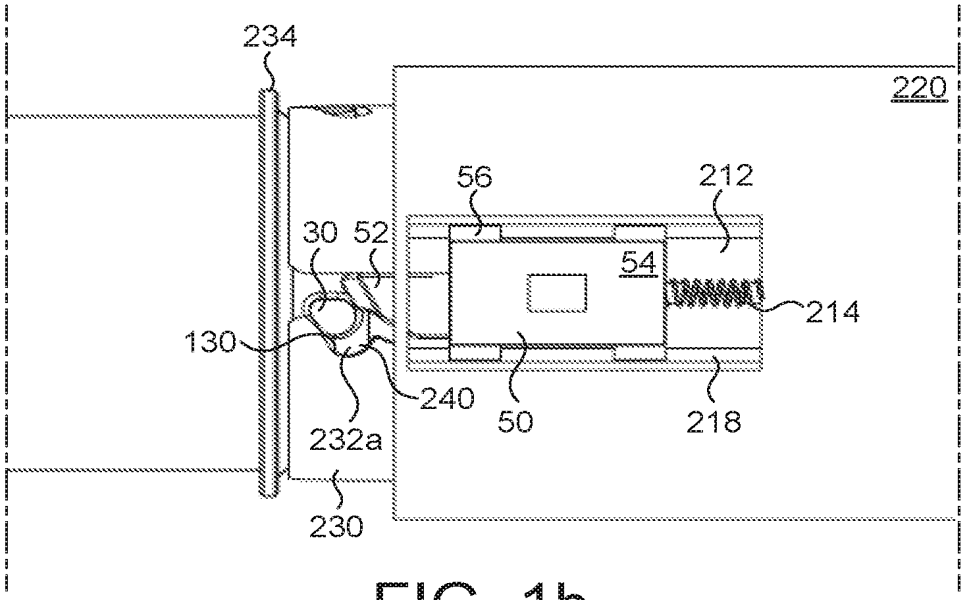
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FIG. 1b

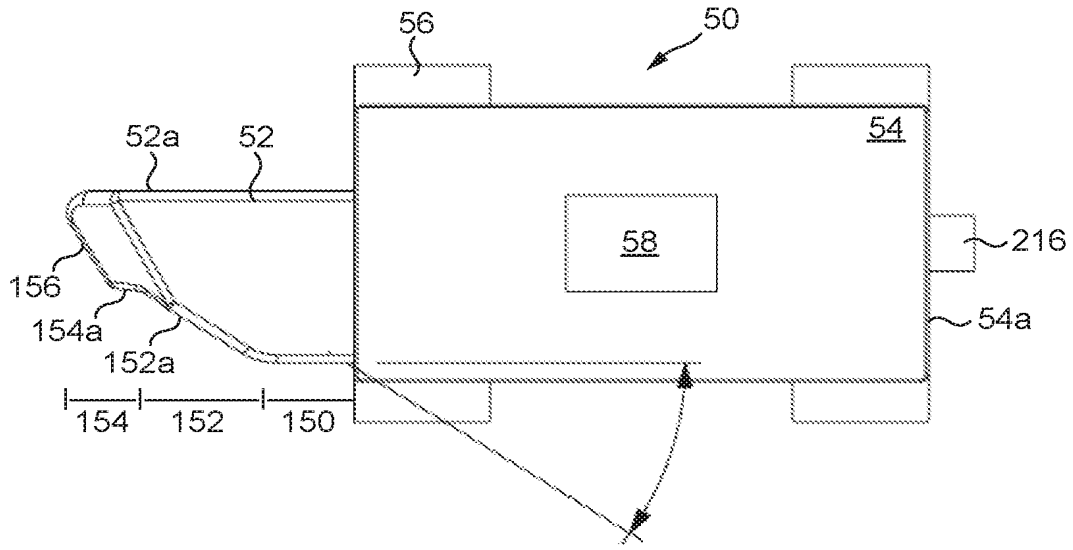

FIG. 2

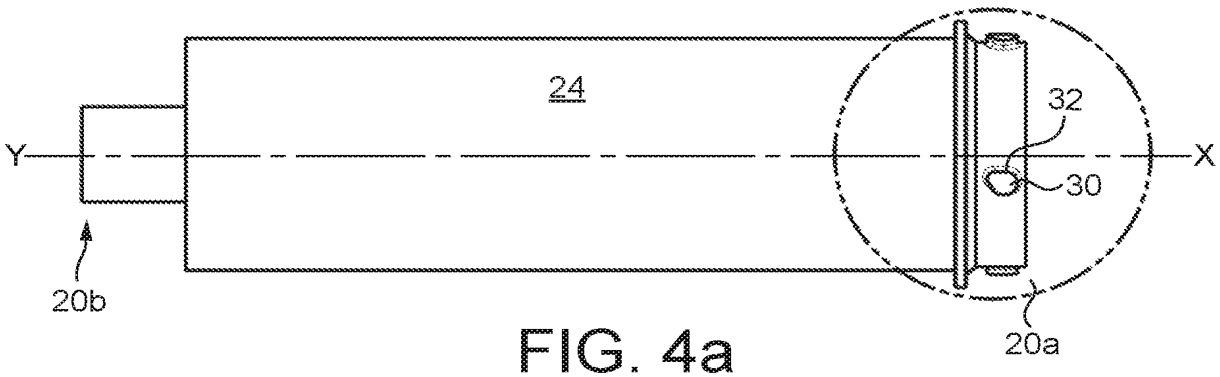

FIG. 4a

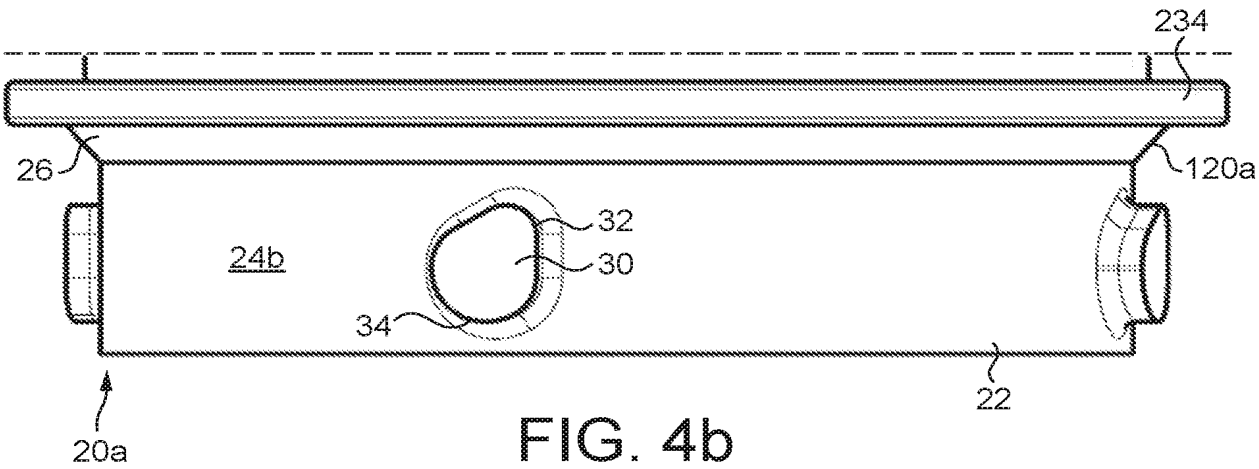

FIG. 4b

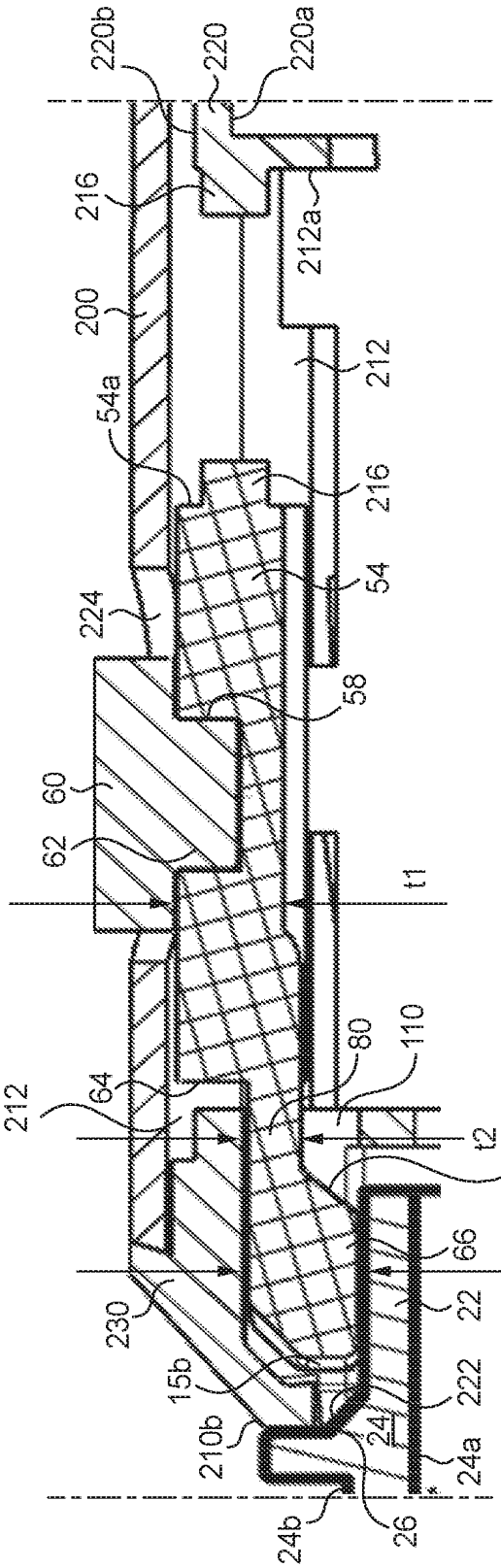
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FIG. 3

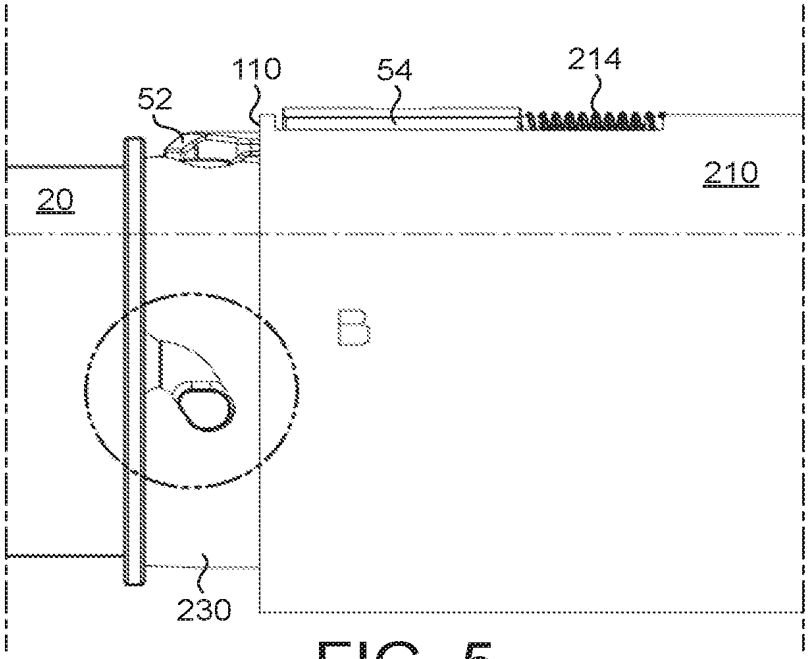

FIG. 5

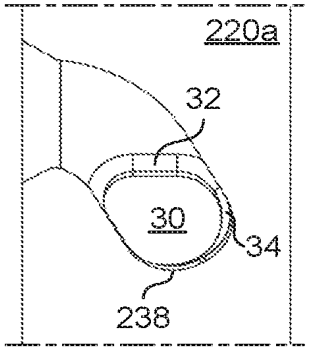

FIG. 6a

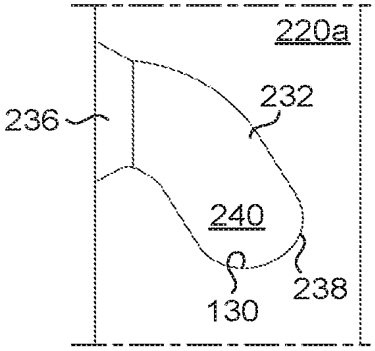

FIG. 6b

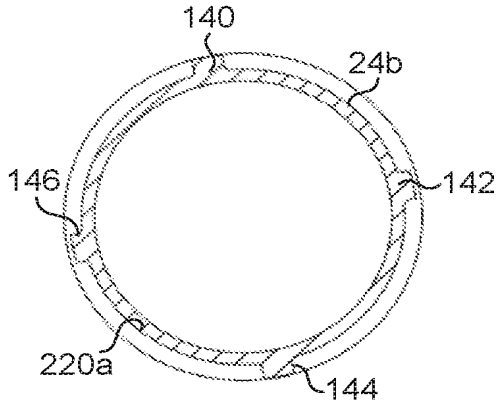

FIG. 10

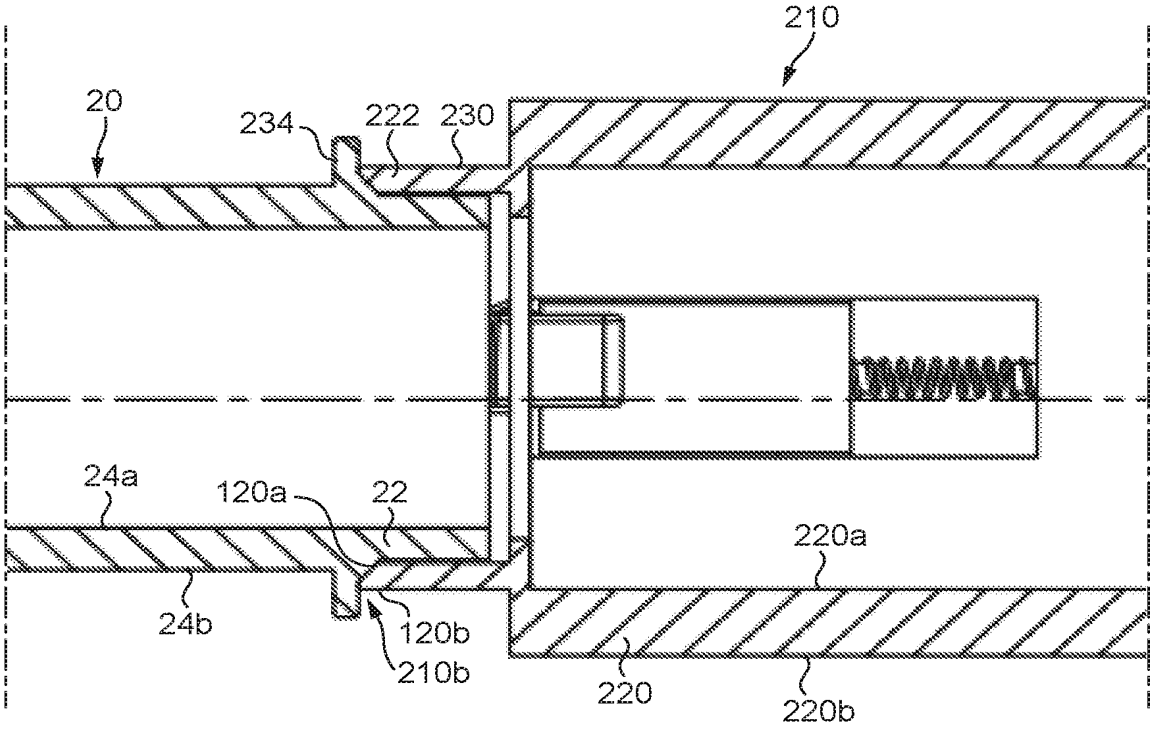
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FIG. 7

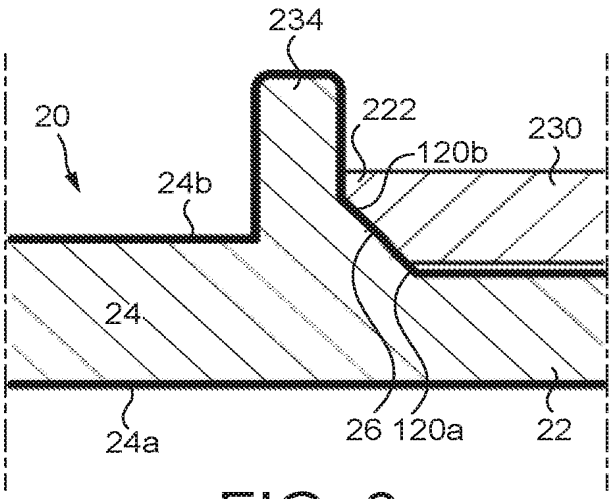
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FIG. 8

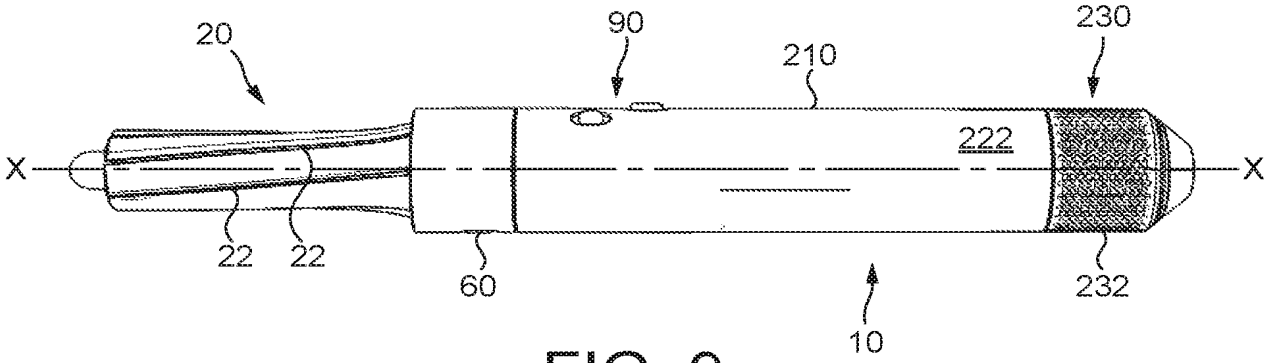

FIG. 9

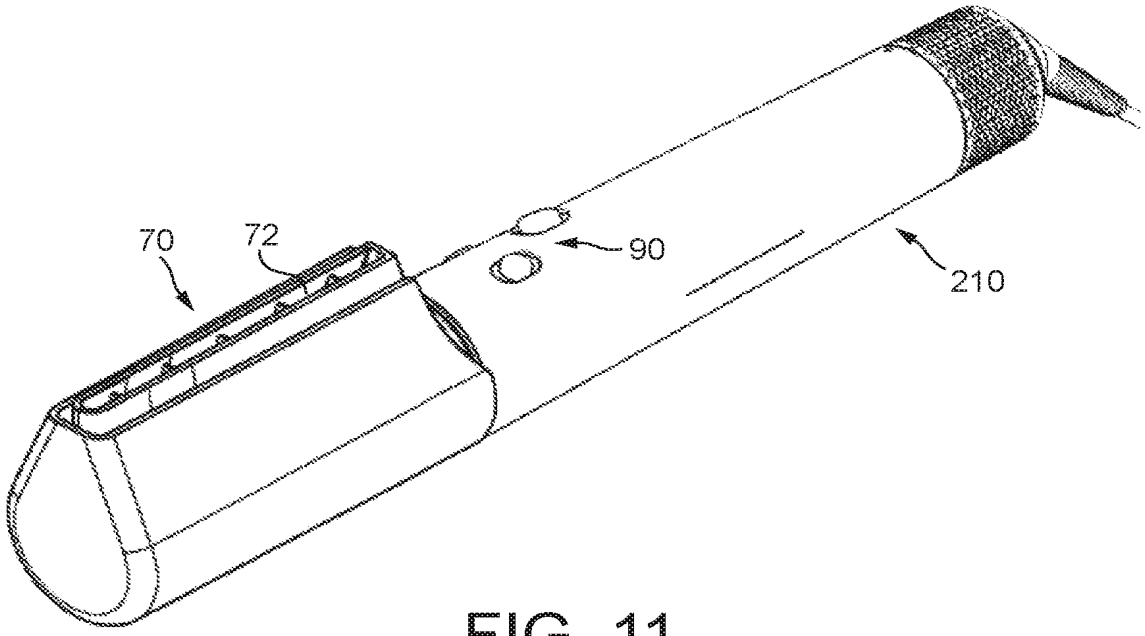

FIG. 11