

Receipt date: 05/09/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	13781551 - GAU: 3765
	Filing Date		2013-02-28	
	First Named Inventor	Meir		
	Art Unit	3765		
	Examiner Name	TBD		
	Attorney Docket Number	51-3238		

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	1	Non-Final Office Action mailed October 17, 2012 in US Patent Application No. 13/400,511.	☐
	2	Non-Final Office Action mailed December 19, 2012 in US Patent Application No. 13/474,531.	☐
	3	Notice of Allowance mailed January 31, 2013 in US Patent Application No. 13/400,511.	☐

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Examiner Signature	/Danny Worrell/ (09/12/2014)	Date Considered	
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Receipt date: 08/12/2014

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Doc description: Information Disclosure Statement (IDS) Filed

13781551 - GALL 3765

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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	1888172		1932-11-15	Joha	

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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	20050115284		2005-06-02	Dua	

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	1	2013126313	WO		2013-08-29	NIKE INTERNATIONAL LTD		☐

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1	International Search Report and Written Opinion mailed July 30, 2014 in International Application Number PCT/US2014/018845	☐
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Search Notes 	Application/Control No. 13781551	Applicant(s)/Patent Under Reexamination MEIR ET AL.
	Examiner LARRY WORRELL JR	Art Unit 3765

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
66	169R, 170, 171, 177	9/12/2014	/dw/
2	3R, 3A, 84, 114, 47	9/12/2014	/dw/

SEARCH NOTES		
Search Notes	Date	Examiner
Review related applications	9/12/2014	/dw/
inventor search	9/12/2014	/dw/

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/L.W./ Primary Examiner.Art Unit 3765
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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	20050193592		2005-09-08	Dua et al.	
	2	20050115284		2005-06-02	Dua	
	3	20040118018		2004-06-24	Dua	

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	1	2013126313	WO		2013-08-29	NIKE INTERNATIONAL LTD		☐

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PTO/SB/08a (01-10)

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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	6321574		2001-11-27	Marker et al.	

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	1	2005160697	JP		2005-06-23	ASICS CORP		☐
	2	1782156	CN		2006-06-07	NIPPON MAYER LTD		☐
	3	102271548	CN		2011-12-07	NIKE INTERNATIONAL LTD		☐

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	1	Taiwanese Office Action dated November 14, 2014 in Taiwanese Patent Application Number 102105769.	☐

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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	/Eric M. Gibson/	Date (YYYY-MM-DD)	2014-12-02
Name/Print	Eric M. Gibson	Registration Number	59,058

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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Bibliographic data: JP2005160697 (A) — 2005-06-23

SHOES FOR LONG DISTANCE RUNNING

Inventor(s): TAMURA HISAYOSHI; FUJITA HISANORI; NISHIWAKI TAKASHI;
NAKABE NOBORU ± (TAMURA HISAYOSHI, ; FUJITA HISANORI, ;
NISHIWAKI TAKASHI, ; NAKABE NOBORU)

Applicant(s): ASICS CORP ± (ASICS CORP)

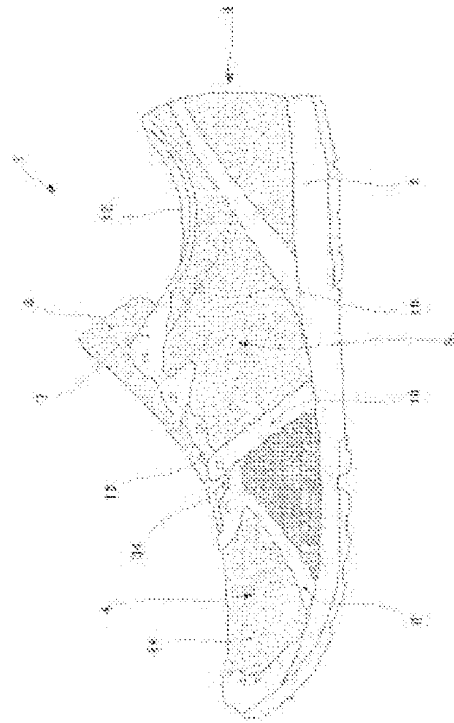
Classification: - **international:** **A43B23/02; A43B5/06;** (IPC1-7): A43B23/02;
A43B5/06
- **cooperative:** **A43B1/04**

Application number: JP20030403009 20031202

Priority number(s): JP20030403009 20031202

Abstract of JP2005160697 (A)

PROBLEM TO BE SOLVED: To solve the problem that the weight reduction in shoes is limited in a conventional constitution since sport shoes such as shoes for a long distance running need a light weight, permeability and constitution of bearing traveling of the long distance. ;SOLUTION: The upper 3 of the shoe for the long distance running is formed of a mesh cloth consisting of a Russell knit. An outer reinforcing material and an inner reinforcing material are provided at a part where a fifth metatarsophalangeal joint makes contact with a first metatarsophalangeal joint. A plurality of vent holes are provided through the outer reinforcing material and the inner reinforcing material. ;COPYRIGHT: (C)2005,JPO&NCIPI



(19) 日本国特許庁 (JP)

(12) 公開特許公報(A)

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特開2005-160697

(P2005-160697A)

(43) 公開日 平成17年6月23日 (2005. 6. 23)

(51) Int. Cl. ⁷

A 4 3 B 23/02

A 4 3 B 5/06

F I

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1 O 1 A

テーマコード (参考)

4 F 0 5 0

審査請求 有 請求項の数 8 O L (全 10 頁)

(21) 出願番号

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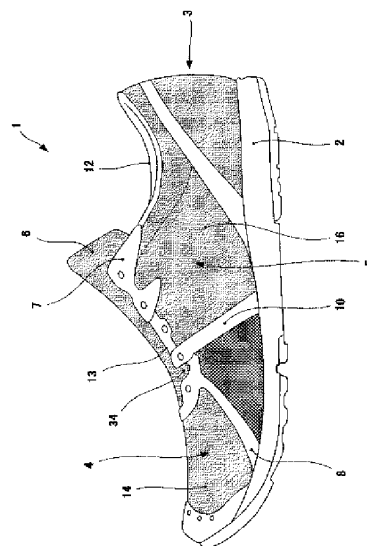
(54) 【発明の名称】 長距離用シューズ

(57) 【要約】

【課題】 長距離用シューズのような運動靴においては、軽量で通気性がよく、長距離の走行に耐えうる構成が必要となってくるため、従来のような構成では軽量化に限界がある。

【解決手段】 甲被3をラッセル編からなるメッシュ生地で形成し、第5中足趾関節及び第1中足趾関節とが接する部分に外補強材及び内補強材を設け、この外補強材及び内補強材に複数の通気孔を設ける。

【選択図】 図1 (a)



【特許請求の範囲】

【請求項1】

靴底と甲被とを有し、該甲被は前甲被部と後甲被部と舌片とを有し、該前甲被部に前方開口部を形成し、該後甲被部に後方開口部を形成した長距離用シューズにおいて、

該前甲被部と該後甲被部と該舌片の生地をラッセル編からなるメッシュ生地で形成し、

該前甲被部の外側甲部において、足の第5中足趾節関節相当部に接する部分と、該前甲被部の内側甲部において、足の第1中足趾節関節相当部に接する部分とに外補強材及び内補強材を設け、

該外補強材及び該内補強材に複数の孔を形成したことを特徴とする長距離用シューズ。

【請求項2】

前記外補強材及び前記内補強材の装着部を除く前記甲被の内側に内装を設けていない請求項1に記載の長距離用シューズ。

【請求項3】

前記甲被における、前記内外補強材、爪先補強材、及び踵補強材の各装着部、並びに前方及び後方開口部の周縁部を除く領域をラッセル編からなるメッシュ生地のみで形成したことを特徴とする請求項1乃至2のいずれか一の項に記載の長距離用シューズ。

【請求項4】

前記後甲被部の通気性を前記前甲被部の通気性より良くした請求項1乃至3のいずれか一の項に記載の長距離用シューズ。

【請求項5】

前記前甲被部のラッセル編からなるメッシュ生地の強度を前記後甲被部のラッセル編からなるメッシュ生地の強度より強くした請求項1乃至4のいずれか一の項に記載の長距離用シューズ。

【請求項6】

前記前甲被部の外側甲部における、前記前方開口部から後下方向に向って略U字形状に外切欠を形成し、前記後甲被部の内側甲片における、前記前方開口部から後下方向に向って略U字形状に内切欠を形成した請求項1乃至5のいずれか一の項に記載の長距離用シューズ。

【請求項7】

前記外切欠を前記内切欠より前側に形成した請求項6に記載の長距離用シューズ。

【請求項8】

前記外補強部材は第1外補強部と第2外補強部とで囲まれた領域内に形成され、前記内補強部材は第1内補強及び第2内補強部で囲まれた領域内に形成されるとともに、前記外補強部材及び前記内補強部材は、末広がり状の略三角形に形成された請求項1に記載の長距離用シューズ。

【発明の詳細な説明】

【技術分野】

【0001】

本願発明は軽量で通気性がよく、耐久性のある長距離用シューズに関する。

【背景技術】

【0002】

従来より運動靴の構成は、大きくアッパー部とソール部とで構成され、アッパー部は前甲被と、後甲被とから構成されており、アッパー部には通常内装（例えば、フィット感を必要とする場合はスポンジのようなクッション性を有する）を有する構成になっている。ここで、従来より運動靴には足の発汗などによる不快感が問題となっていたため、様々な対策が行われてきた。例えば、足の発汗による不快感を、アッパー部に穴を開けて通気性をよくしたものや、内装以外のアッパー部の全て、または一部をメッシュ布を用いて通気性をよくしたものが考案されていた。（例えば、特許文献1、2参照。）

【特許文献1】実用新案第2600885号公報

【特許文献2】実開昭55-157403

【発明の開示】

【発明が解決しようとする課題】

【0003】

しかしながら、長距離用シューズのような運動靴においては、出来る限り足への負担を軽減させるために、軽量で、且つマメの発生を防止するために通気性が良く、長距離の走行に耐え得る構成が必要である。殊にマラソン競技のように、42、195kmの距離を走行する場合には、軽量性、通気性、耐久性、更には足とのフィット性、の全ての要素が求められる。したがって、前述したように、これら長距離用の靴の甲被には、軽量性、通気性に優れたメッシュ生地等で構成されたものがあるが、メッシュ生地の伸縮性が強過ぎるため、靴の保形性を維持できない場合があり、これを抑制し補強するために、靴の内面の略全体、或は適宜箇所に裏地、補強部材等を内装していたが、いずれも長距離用のシューズとしては決して満足し得るものではなかった。

【0004】

即ち理想とする長距離用シューズとしては、最も負荷がかかり易く、足の屈曲の支点となる部分で、且つ着地時に左右の横ブレを阻止して、ランニングフォームを維持し、エネルギーロスを最小限に止めることができる、中足趾節関節相当部のみに補強部材を重点的に施し、その他の部分をメッシュ材（ラッセル生地）が有する特性を最大限に生かせるような構成を有するシューズにある。

【0005】

本願発明に係る課題に鑑み、必要最小限の領域に補強部材を装着し、通気性は勿論、軽量性、耐久性にも満足し得る長距離用シューズを提供することを目的としている。

【課題を解決するための手段】

【0006】

上記課題を解決するため、本願発明の長距離用シューズは、靴底と甲被とを有し、該甲被は前甲被部と後甲被部と舌片とを有し、該前甲被部に前方開口部を形成し、該後甲被部に後方開口部を形成した長距離用シューズにおいて、該前甲被部と該後甲被部と該舌片の生地をラッセル編からなるメッシュ生地で形成し、該前甲被部の外側甲部において、足の第5中足趾節関節相当部に接する部分と、該前甲被部の内側甲部において、足の第1中足趾節関節相当部に接する部分とに外補強材及び内補強材を設け、該外補強材及び該内補強材に複数の孔を形成したことで、軽量で通気性が良く、耐久性に優れた靴が形成される。

【0007】

また、前記外補強材及び前記内補強材の装着部を除く前記甲被の内側に内装を設けていないことで、さらに軽量にすることができる。

【0008】

また、前記甲被における、前記内外補強材、爪先補強材、及び踵補強材の各装着部、並びに前方及び後方開口部の周縁部を除く領域をラッセル編からなるメッシュ生地のみで形成することもできる。

【0009】

また、前記後甲被部の通気性を前記前甲被部の通気性より良くしたことで、通気性必要なところを効率よく通気させることができると共に、耐久性も増すことができる。

【0010】

また、前記前甲被部のラッセル編からなるメッシュ生地強度を前記後甲被部のラッセル編からなるメッシュ生地強度より強くしたことで、強度が必要なところは残し、それ以外のところを軽量にすることができる。

【0011】

また、前記前甲被部の外側甲部における、前記前方開口部から後下方向に向って略U字形状に外切欠を形成し、前記後甲被部の内側甲片における、前記前方開口部から後下方向に向って略U字形状に内切欠を形成したことで、前記甲被部の伸縮力による生地の変形を抑えることができる。

【0012】

また、前記外切欠を前記内切欠より前側に形成したことで、最もよく生地の変形を抑えることができる。

【0013】

また、前記外補強部材は第1外補強部と第2外補強部とで囲まれた領域内に形成され、前記内補強部材は第1内補強及び第2内補強部で囲まれた領域内に形成されるとともに、前記外補強部材及び前記内補強部材は、末広がり状の略三角形に形成することもできる。

【発明の効果】

【0014】

単に軽量で、通気性にすぐれているだけでなく、長距離用シューズをできるだけ軽量化にすると共に、必要な箇所だけに補強材を設けることで、靴の耐久性を向上させることができる。

【発明を実施するための最良の形態】

【0015】

本願発明の長距離用シューズの一実施形態を図面を参照しつつ説明する。

【0016】

図1は本願発明の長距離用シューズ左足側の図であり、(a)は左側面図、(b)は右側面図、(c)は平面図である。

【0017】

図1に示すように、長距離用シューズ1(以下「靴」という。)は、靴底2と、甲被3とから構成されており、靴底2と甲被3とは接着剤で貼り付けた構成になっている。靴底2は軽量であることが必要のため、合成樹脂等が主に使われている。また、甲被3は、全体に亘って軽量で、通気性のよいラッセル編からなるメッシュ生地を用いられており、足の発汗作用による水分を靴外に放出することができる。そして、この甲被3は主に3つの部分で構成されている。甲被3は、靴1の左側面の略中間位置に取付られた帯状の第2外補強部10と、靴1の右側面の略中間位置に取付られた帯状の第2内補強部11とを境目に、前甲被部4と、後甲被部5とに分けられる。そして、靴1の足を挿入する履口部12の前側の前方開口部13の前端部では、前方開口部13を覆うための舌片6が、前甲被部4の内側より取付られている。この前甲被部4、後甲被部5、及び舌片6は、後述するようにそれぞれのラッセル編からなるメッシュ生地構造が異なっている。また、前甲被部4は靴1の内側の内側甲部15と、靴1の外側の外側甲部14とから形成されている。また、後甲被部5は靴1の内側の内側甲片17と、靴1の外側の外側甲片16とから形成されている。

【0018】

図2は足の骨格の図であり、(a)は側面図、(b)は平面図である。

【0019】

図2に示すように、足の骨格は、指骨20、中足骨21を有する構成になっており、人が歩くまたは走るときは、指骨20と中足骨21の間の中足趾節関節25を軸にして、中足骨21が図2(a)の矢印A方向に揺動することで、足を前に蹴り出すことができる。

この際、指骨20に含まれる末節骨22、中節骨23、及び基節骨24は、それぞれの趾節関節において、矢印A方向にほとんど揺動することができないので、人が足を蹴り出す場合、足は中足趾節関節25の近傍の変位が最も大きくなる。このことから、人が靴1を履いて歩くまたは走る状態においては、中足趾節関節25の近傍である第1外補強部8から第2外補強部10に至る範囲、及び第1内補強部9から第2内補強部10に至る範囲（図1参照）が靴1に対して最も負荷が掛かる部分となる。

【0020】

図3は左足の斜視図である。

【0021】

図3に示すように、土踏まず近傍から足の甲に亘る帯状の土踏まず部26、及び小指球近傍から足の甲に亘る帯状の小球部27では、歩くまたは走る場合、土踏まず部26と小球部27とを境界に、蹴り上げる後足と着地する前足とでは、挙動が大きく異なる。よって、靴1を履いた状態で歩くまたは走ると、靴1の土踏まず部26が当たる部分、及び靴1の小球部27が当たる部分では、靴1に掛かる伸縮力が大きくなる。そこで、後述するように、土踏まず部26及び小球部27が、靴1の前部開口部13と交差するところにそれぞれ内切欠35及び外切欠34（図1（c）参照）を設けて、靴1の伸縮力を吸収し、靴1の耐久性を向上させることができるように構成されている。

【0022】

図4は靴1の分解図である。

【0023】

図4に示すように、靴1は主に靴底2と、前甲被部4と、後甲被部5とを有する構成になっている。前甲被部4の生地は略U字型状で形成されており、その外側甲部14上部には伸縮力を吸収するための外切欠34が前方開口部13から靴1外側の後下方向に向って略U字形状に形成されている。そして、前甲被部4は第1中足趾節関節47から第5中足趾節関節46に至る範囲で、足の前側を覆うように形成されている。また、中足趾節関節を軸として基節骨24と中足骨21が揺動するので、第1中足趾節関節47及び第5中足趾節関節46の近傍には、末広がり状の略三角形に形成された外補強材29及び内補強材30が前甲被部4に取付られ、耐久性を向上させている。

【0024】

後甲被部5の生地は略帯形状で形成されており、その内側甲片17上部には伸縮力を吸収するための内切欠35が前方開口部13から靴1内側の後下方向に向って略U字形状に形成されている。そして、後甲被部5は第1中足趾節関節47から第5中足趾節関節46に至る範囲で、足の側面及び後側を覆うように形成されている。また、靴1の耐久性を増加させ、靴1と足のフィット性を向上させるために、踵周辺には踵補強材33が後甲被部5に取付けられている。そして、このように構成された前甲被部4と後甲被部5とを組合わせて、靴底2に取付られ、靴1の前部開口部13を覆う鳩目部7と、第1外補強部8と、第1内補強部9と、第2外補強部10と、第2内補強部11と、爪先強部37とを有する中間補強材36が、靴1の先端及び側面を補強するように取付けられている。そして、履口部12（図1（a）参照）には弾性素材を有するT字形状の履口補強材32が靴1の内面から設けられており、靴を履くときや脱ぐときに足と接触して後甲被部5が破損しないように形成されている。また、靴1は出来る限り軽量にするために、後述する網目組織の拡大部44を複数設けられている。よって、後甲被部5は前甲被部4に比べて軽くなるように形成されている。

【0025】

次に図5を用いてラッセル編からなるメッシュ生地と、外補強材及び内補強材との構成を説明する。

【0026】

図5はラッセル編からなるメッシュ生地の拡大図であり、（a）は外補強材または内補強材における斜視図、（b）は外補強材または内補強材における断面図、（c）は後甲被部5における斜視図である。

【0027】

図5に示すように、靴1のラッセル編からなるメッシュ生地は表面繊維38と、表面と裏面を連結する連結繊維39と、裏面繊維40とを有する構成になっている。図5(a)に示すように、表面繊維38は略六角形状に編まれており、表通気孔42を有する構成になっている。また、裏面繊維40は網目形状に編まれて、表面繊維38と裏面繊維40とを連結繊維39で複数箇所連結することで通気性及び耐久性を向上することができるように構成されている。また、図5(b)に示すように、裏面繊維40の紙面下方(靴1の内側)に外補強材29または内補強材30を取付けることで、耐久性をさらに向上させることができる。この外補強材29または内補強材30には複数の孔45が形成されており、外補強材29または内補強材30によって通気性が悪くなることを防止することができる。一方、通気性及び耐久性を主目的として形成された前甲被部4に比べて、後甲被部5は通気性及び軽量化を主目的として形成されているので、図5(c)に示すように、裏面繊維40にさらに網目組織の拡大部44を可能な限り複数個設けられている。また、前甲被部4は後甲被部5に比べ靴1の構成上耐久性を必要とするため、裏面繊維40の網目部43は後甲被部5に比べ前甲被部4の網目部43は間隔が狭くなるように形成されており、走るまたは歩くときの前甲被部4に加わる伸縮力に耐えることができるように構成されている。そして、前記甲被における、前記内外補強材、爪先補強材、及び踵補強材の各装着部、並びに前方及び後方開口部の周縁部を除く領域をラッセル編からなるメッシュ生地のみで形成することもできる。

【0028】

上記のような構成により形成された靴1は、単に軽量で通気性にすぐれているだけでなく、ラッセル編のメッシュ生地の伸縮特性が活かされ、靴着用者の足とのフィット性が好適に維持される。また、補強材が中足趾節関節相当部のみに重点的に内装されていることにより、ランニングにおいて足の屈曲の支点となる部分で、最も負荷がかかり、着地時に左右の横ブレが生じ易い部分が補強されることとなり、ランニングフォームを崩すことなく、エネルギーロスを最小限に止めることができる理想的な長距離用専用のシューズを構成することができる。

【産業上の利用可能性】

【0029】

マラソンシューズ等の長距離を走るための靴に用いることができる。

【図面の簡単な説明】

【0030】

【図1(a)】本願発明の長距離用シューズ左足側の図であり、左側面図である。

【図1(b)】本願発明の長距離用シューズ左足側の図であり、右側面図である。

【図1(c)】本願発明の長距離用シューズ左足側の図であり、平面図である。

【図2】骨格の図であり、(a)は側面図、(b)は平面図である。

【図3】左足の斜視図である。

【図4】本願発明の長距離用シューズ左足側の分解図である。

【図5】本願発明の長距離用シューズのラッセル編からなるメッシュ生地の拡大図であり、(a)は外補強材または内補強材における斜視図、(b)は外補強材または内補強材における断面図、(c)は後甲被部5における斜視図である。

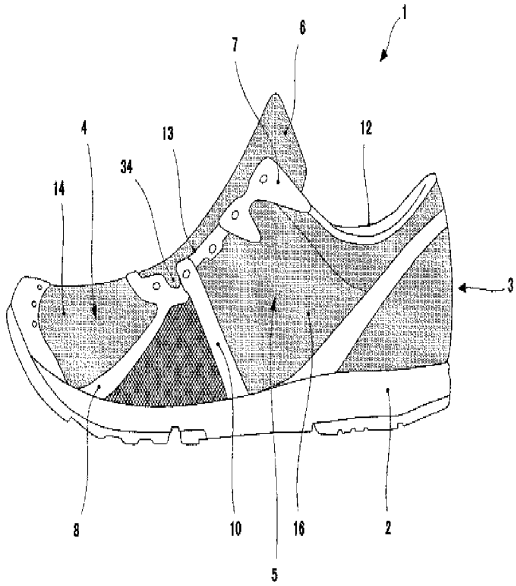
【符号の説明】

【0031】

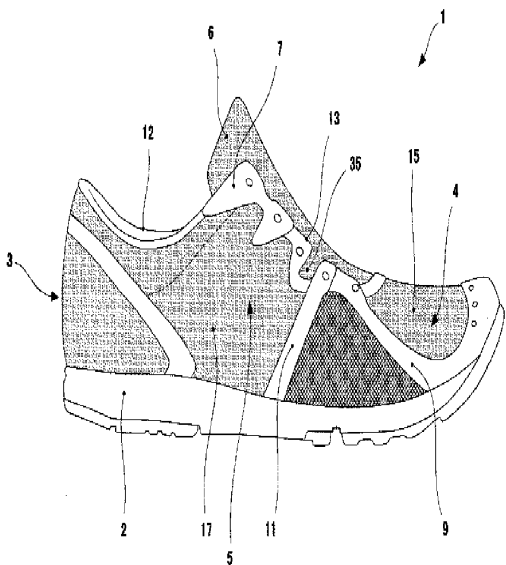
- 1 長距離用シューズ
- 2 靴底
- 3 甲被
- 4 前甲被部(ラッセル編からなるメッシュ生地)
- 5 後甲被部(ラッセル編からなるメッシュ生地)
- 6 舌片(ラッセル編からなるメッシュ生地)
- 7 鳩目部

- 8 第1外補強部
- 9 第1内補強部
- 10 第2外補強部
- 11 第2内補強部
- 14 外側甲部
- 15 内側甲部
- 16 外側甲片
- 17 内側甲片
- 29 外補強材
- 30 内補強材
- 34 外切欠
- 35 内切欠
- 37 爪先補強材
- 43 網目部
- 44 網目組織の拡大部
- 46 第5中足趾節関節
- 47 第1中足趾節関節

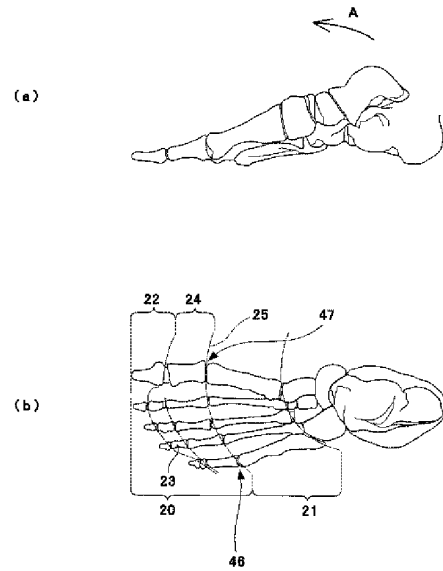
【図1(a)】



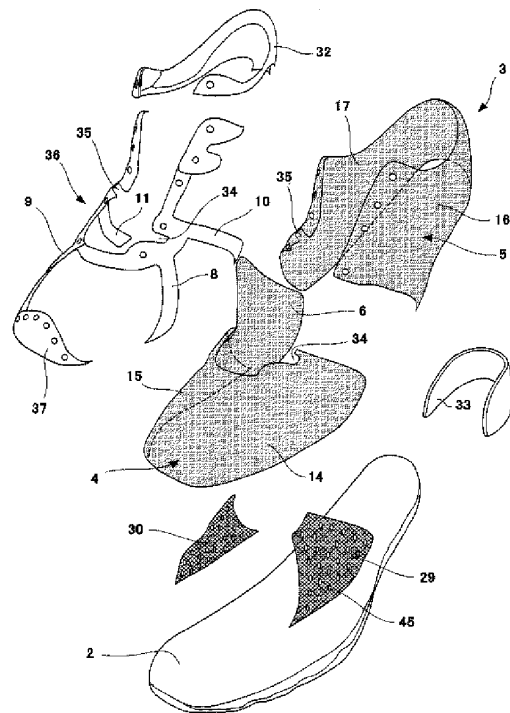
【図1(b)】



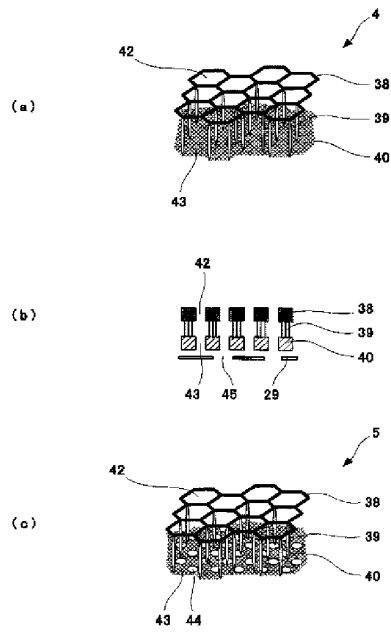
【図2】



【例4】



【図5】



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Method for producing space fabric and space fabric

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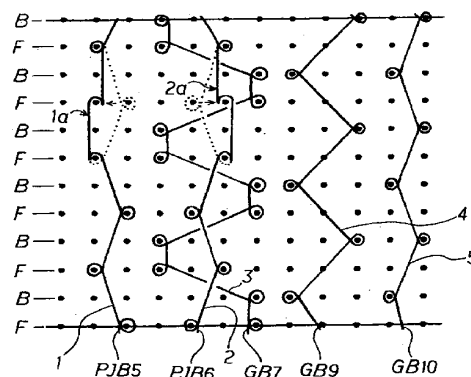
权利要求书 1 页 说明书 10 页 附图 13 页

[54] 发明名称

间隔织物的制法及间隔织物

[57] 摘要

本发明的目的是提供间隔织物，在由连接线将两片底布连接而成的立体经编布地形成的间隔织物中，至少一方的底布由网眼构成，可以明了地表现网眼，同时，网眼可以取得均衡，并可以考虑立体经编布地的物性进行设计。采用两列的提花导纱梳节进行至少一方的底布的形成，被提花导纱梳节引纱的两种提花线形成网眼地纹组织，使其沉降弧相互向相反方向针背垫纱，织成网眼粗度不同的多个网眼部混杂的形式，使均衡的网眼排列在所要的位置上形成间隔织物。



1. 一种间隔织物的制法，采用至少设有两列提花导纱梳节的具有两列针床的经编机，制造由前后部底布及用于将所述前后部底布连接的连接线构成的间隔织物；其特征在于：

在形成前后部至少一方的底布时，使在两列的提花导纱梳节中引纱而成的提花线针前垫纱形成针编弧，同时，使该提花线的针背垫纱相互呈相反方向，形成网眼大小不同的多个网眼部混杂的网眼地纹组织的主体部。

2. 如权利要求 1 所述的间隔织物的制法，其特征在于：作为所述网眼地纹组织，设置不小于 3 层的多层的网眼大小不同的网眼部。

3. 如权利要求 1 或 2 所述的间隔织物的制法，其特征在于：在所述网眼地纹组织中混杂平针地纹组织，同时，由该两地纹组织的至少一方构成花纹。

4. 如权利要求 1 或 2 所述的间隔织物的制法，其特征在于：前后部的一方的底布为所述提花线形成的所述网眼地纹组织，同时，在形成前后部的另一方的底布时，由在地纹导纱梳节中引纱而成的地纹线形成网眼地纹组织。

5. 如权利要求 3 所述的间隔织物的制法，其特征在于：前后部的一方的底布为所述提花线形成的所述网眼地纹组织，同时，在形成前后部的另一方的底布时，由在地纹导纱梳节中引纱而成的地纹线形成网眼地纹组织。

6. 一种间隔织物，其特征在于：所述间隔织物由权利要求 1~5 中的任一项所述的间隔织物的制法制造而成。

间隔织物的制法及间隔织物

技术领域

本发明涉及间隔织物的制法及由该制法制造的间隔织物。该间隔织物的制法是，在由连接线将两片经编底布连接而成的立体经编布地构成的、通称为经编间隔织物（スパーサファブリック）中，对至少一方的底布，构成由提花线形成的网眼的地纹组织。

背景技术

现有技术中，上述间隔织物被广泛应用于寝具及其附属用品领域、衣料领域、车辆相关用品、医疗用品等的各种工业资材领域。其形态为，对一方的底布采用平针织物，而另一方的底布采用网状的织物，或两底布都采用网眼大小相同的或网眼大小不同的织物等，提供各种各样的样式。其中，为了特别提高外观上的装饰效果，提出了在平纹状的底布中混杂网眼组织，或为了谋求用途上的功能性，而考虑了将若干种网眼组织进行组合的方案。

例如，在日本实用新型注册第 2548713 号公报中，公开了由前后部的底布，和为了确保设于这两底布之间的空隙而由连接线形成的三层构造经编布地，由至少构成前后部的一方侧的底布的线圈列形成的各个线圈纵行，借助对提花线进行导丝的提花引导件的个别控制，使提花线对线圈列的作用位置变化，例如，形成大的网眼（孔部）和小的网眼（孔部），将这些进行组合而形成模样的技术，并公开了作为使用所形成的经编布地的一个用途、用于鞋的状态。

上述现有技术中，构成孔部即网眼的织物组织构造，是通过对由一系列提花导纱梳节导丝的提花线进行控制而形成的，为了构成网眼，通过连续设置仅仅作用在一根编针列上的线圈横列，进行基本上相邻的两根编针交互作用而形成针编弧的针织纱，在该线圈横列上未由另一方的编针编织的针编弧，当然是在全部编针中补充以形成编链组织

的方式送纱的由另外的地纹导纱梳节导纱的编链组织纱。

为此，所形成的网眼由针织纱形成双重针编弧的线圈纵行，和形成单一针编弧的线圈纵行形成，其结果，织物坯布整体上网眼的挤拧度松弛，由此而无法鲜明表现网眼的大小。而且，织物坯布的强度方面也因网眼不均衡而难以获得所需的物性，特别是，不能算是适合用于鞋的鞋面材料等的材料。

专利文献 1 日本实用新型注册第 2548713 号公报

发明内容

本发明提供间隔织物的制造方法及由该制造方法制造的间隔织物。该间隔织物的制法是，对由连接线将两片经编底布连接而成的间隔织物的至少一方的底布，由提花机控制的提花线形成网眼的地纹组织，所形成的网眼被明了地予以表现，同时，由于网眼的大小混杂而取得网眼的均衡，并可以考虑物性进行设计。

本发明为解决上述课题而提出，提供一种间隔织物的制法，采用至少设有两列提花导纱梳节的具有两列针床的经编机，制造由前后部底布及用于将所述前后部底布连接的连接线构成的间隔织物；其特征在于：在形成前后部至少一方的底布时，使在两列的提花导纱梳节中引纱而成的提花线针前垫纱（オーバラッピング）形成针编弧，同时，使该提花线的针背垫纱（アンダラッピング）相互呈相反方向，形成网眼大小不同的多个网眼部混杂的网眼地纹组织的主体部。

而且，本发明提供一种间隔织物，在由前后部底布及用于将所述前后部底布连接的连接线构成的间隔织物的至少一方的底布上，使在两列的提花导纱梳节中引纱而成的提花线向相互相反的方向针背垫纱，形成网眼大小不同的多个网眼部混杂的网眼地纹组织的主体部。

根据本发明的制法及由该制法获得的间隔织物，在形成至少一方的底布的网眼地纹组织时，所形成的底纱是在两列的提花导纱梳节中引纱而成的提花线，通过提花控制使承担网眼地纹组织的主体部的提花线向相互相反的方向针背垫纱进行编织，因而，使得提花线通常拉向相反方向，相互的提花线将线圈孔勒紧。为此，可以获得明了的网

眼形态，同时，所得到的间隔织物，其形成网眼地纹组织的底纱仅仅是被提花控制的提花线，不需要补充的编链组织，使针织组织为均衡的网眼底布，而且，配置多个网眼部并考虑网眼大小进行设计，因此具备所期望的物性。

附图说明

图 1 是具有本发明的间隔织物的制造中使用的设有两列的提花导纱梳节的两列针床的经编机中的主要编织部分的概略侧面图。

图 2 是用于制造本发明的一个实施例的间隔织物的针织组织图。

图 3 是表示提花针织组织的变型例的说明图。

图 4 是间隔织物的一个实施例中包含网眼的底布的针织组织图。

图 5 是间隔织物的一个实施例中包含网眼的底布的从外侧观察的外观图。

图 6 是间隔织物的一个实施例中包含网眼的底布的从内侧观察的俯视图。

图 7 是间隔织物的另一个实施例中包含网眼的底布的针织组织图。

图 8 是间隔织物的又一个实施例中包含网眼的底布的针织组织图。

图 9 是表示提花针织组织的另一变型例的说明图。

图 10 是表示本发明的间隔织物的一例的轴测图。

图 11 是表示将本发明的间隔织物用作鞋的鞋面材料的应用例的轴测图。

图 12 是表示将本发明的间隔织物用于无袖上衣的应用例的轴测图。

图 13 是表示将本发明的间隔织物用于背心的应用例的轴测图。

图 14 是表示将本发明的间隔织物用于座套的应用例的轴测图。

图 15 是表示将本发明的间隔织物用于帽子的应用例的轴测图。

具体实施方式

说明书本发明的实施例。本发明的间隔织物的制法中，作为基于

提花线的至少一方的底布的所述网眼地纹组织，设置不小于3层的多层的网眼大小不同的网眼部，由此，可以具有透气性等功能，而且可以提高网眼状态外观的装饰性。

可以在所述网眼地纹组织中混杂平针地纹组织，同时，由该两地纹组织的至少一方，例如由平针地纹组织构成花纹。由此，可保持作为网眼地纹组织的功能性，而且由平针地纹组织构成提花花纹，可以进一步提高装饰性。而且，采用所述平针地纹组织还可以引入标识，可以进一步发挥商品效果。

在形成前后部的一方的底布时，使在两列的提花导纱梳节中引纱而成的提花线向相互相反的方向针背垫纱，形成网眼大小不同的多个网眼部混杂的网眼地纹组织的主体部，同时，在形成前后部的另一方的底布时，由在地纹导纱梳节引纱而成的底纱形成网眼地纹组织，由此，对于所制造的间隔织物，因由提花线构成网眼部分的一方侧底布的面而可以提高装饰性，同时，可由另一方侧底布的面网眼部分更有效地提高功能性。

下面根据附图说明本发明的实施例。

(实施例1)

图1是用于制造本发明的间隔织物的经编机，是具有两列的提花导纱梳节的两列针床的经编机的主要编织部分的概略侧面图。F为前方的编针列，B为后方的编针列，GB1、GB2、GB3是前方侧的地纹导纱梳节，PJB5、PJB6为两列提花导纱梳节，GB7、GB9、GB10为后方侧的地纹导纱梳节。本经编机中，替换地纹导纱梳节GB3设置花筘（未图示），而且，替换地纹导纱梳节GB7设置花筘（未图示）。针织时序（タイミング）分别设定成：地纹导纱梳节GB1、GB2、GB3、提花导纱梳节PJB5、PJB6、地纹导纱梳节GB7可以在前方的编针列F针前垫纱，同时，地纹导纱梳节GB3、提花导纱梳节PJB5、PJB6、地纹导纱梳节GB7也可以在后方的编针列B针前垫纱，而且，地纹导纱梳节GB9、GB10可以仅在后方的编针列B针前垫纱。

接着根据图2所示针织组织的一例说明本发明的间隔织物的一个

实施例。1 是提花导纱梳节 PJB5 中引纱而成的提花线，2 是在提花导纱梳节 PJB6 引纱而成的提花线，是将 84dtex 聚酯加工纱分别按照织机机号（ゲージ）的条数分全部穿筘地进行引纱而成的。由这些提花线 1、2 织成前部底布。4 是在地纹导纱梳节 GB9 引纱而成的底纱，5 是在地纹导纱梳节 GB10 引纱而成的底纱，是将 84dtex 聚酯多纤维人造丝分别按照织机机号的条数份全部穿筘地进行引纱而成的。由这些底纱 4、5 织成后部底布，例如将后部底布形成网眼地纹组织。3 是用于将所述前部底布和后部底布连接编织、在两底布之间设置间隔的连接线，是在地纹导纱梳节 GB7 按照织机机号的条数分全部穿筘地进行引纱而成的。在该针织组织的例子中不使用地纹导纱梳节 GB1、GB2、GB3。

用于织成这些间隔织物的基本组织的链编号为：PJB5：1-2/1-1/1-0/1-1//、PJB6：1-0/1-1/1-2/1-1//、GB7：1-0/1-0/3-4/3-4//、GB9：2-2/2-3/1-1/1-0//、GB10：1-1/1-2/1-1/1-0//。

图 2 中，在提花导纱梳节 PJB5 以及提花导纱梳节 PJB6 的针织组织线图中，对于以点划线表示的部位，通过提花控制使提花线 1 或提花线 2 的作用位置分别以编针 1 针份向箭头方向变化，由此，如图中提花线 1a 和提花线 2a 那样形成一根线圈纵行状态，在该线圈横列部分中形成网眼。该网眼的粗度或大小，可以根据由提花控制而形成一根线圈纵行状态的线圈横列数适当设定。

根据附图 3 详细说明上述提花控制组织的变型例。图 3（1）表示作为不进行作用到前方的编针列 F 的提花线 1、2 的提花控制的基本组织，对相邻的编针交互地作用的薄地针织组织，图中所示附图标记 H，是表示在提花导纱梳节的针背垫纱位置以及针前垫纱位置不进行提花控制。而且，图 3（2）表示提花线 1、2 被织成一根线圈纵行状态的孔地针织组织的变化组织，图中以附图标记 T 表示的是，提花导纱梳节在针背垫纱位置以及针前垫纱位置的两个位置，被提花控制而改变对编针的作用位置。图中点划线表示在原薄地针织组织变化 1a、2a 后的提花线的孔地针织组织。图 3（3）表示提花线 2 向箭头的线圈横

列以及纸面上的右方被提花控制而变化成 2b 那样的针织组织的例子，图 3(4) 表示提花线 1 向箭头的线圈横列以及纸面上的左方被提花控制而变化成 1b 那样的针织组织。所述针织组织 1b、2b，都形成了与所述孔地针织组织 1a、2a 相反地针背垫纱部相对于以点划线表示的原薄地组织形成得长出 1 针份的厚地针织组织。

本发明基本上采用上述的针织组织，即，将薄地组织、孔地组织以及厚地组织适当组合而成的针织组织用作前后部的一方侧的底布的结构，构成网眼粗度不同的多个网眼部混杂的网眼地纹组织的主体部。所述网眼的粗度还可以构成为不少于三层的多层。对于所述网眼部的网眼粗度的构成，以下的实施例中也同样实施。

图 4 是具有采用提花线 1、2 织成的网眼部的一个实施例的间隔织物的一方侧的底布，例如前部底布的针织组织图。由该针织组织图进行编织时，构成网眼 M1、M2 的缘部的线圈纵行，使提花线 1、2 变为孔地针织组织 1a、2a，网眼 M1、M2 的主体部 S1、S2，提花线 1、2 的沉降弧 SL1、SL2 向相互相反方向被针背垫纱。

图 5 是由上述针织组织织成的间隔织物的所述一方侧的底布的外方侧观察的外观俯视图，图 6 是对同样的一方侧的底布从内侧观察的俯视图。这些图中，为了便于视图而省略了基于连接线 3 的针编弧。如图所示，为了构成各个网眼 M1、M2...而形成的主体部 S1、S2...，提花线 1 的沉降弧 SL1 群和提花线 2 的沉降弧 SL2 群，从相互相反方向构成后针背垫纱部，由此，主体部 S1、S2...，它们的针编弧 NL1、NL2 紧密缔结而相互拉拽，网眼 M1、M2...的轮廓更为鲜明地得以表现，而且，底布整体上以相同数量构成提花线 1、2 的针编弧 NL(NL1、NL2) 和沉降弧 SL(SL1、SL2)。为此，构成底布整体的各个线圈可以形成均衡状态，物性方面也可以使强力平均化，可以获得对外力负载的适当强度。

图 7 是具有采用提花线 1、2 织成的网眼部的另一实施例的间隔织物的一方侧的底布的针织组织图。在以该针织组织图编织时，网眼 M3、M4 的主体部 S3、S4，提花线 1、2 的沉降弧 SL3、SL4 向相互

相反方向被针背垫纱，同时，两沉降弧 SL3、SL4 都形成具有三针间的针背垫纱部（过渡到两针相邻的编针的针背垫纱）的厚地针织组织 1b、2b。而且，构成网眼 M3、M4 的缘部的线圈纵行，作为薄地针织组织，提花线 1、2 向相互相反方向在相邻的两针之间被针背垫纱。这样制造成的间隔织物，在具有网眼部侧的底布外方侧的表面产生凹凸，例如在将其用于车座等的座椅材料时，可改善落座时的肌肤触感。

图 8 是具有采用提花线 1、2 织成的网眼部的又一实施例的间隔织物的一方侧的底布的针织组织图。在以该针织组织图编织时，对于网眼 M5、M6、M7 的主体部 S5、S6、S7，与图 4 所示实施例同样地，提花线 1a、2a 的沉降弧 SL1、SL2 向相互相反方向被针背垫纱，同时，形成具有相邻两针之间的针背垫纱部的薄地针织组织。构成网眼 M5、M6、M7 的缘部的线圈纵行，提花线 1、2 也被变为孔地针织组织 1a、2a。在此情况下，网眼 M5、M6、M7 在底布内被花样式配置在适当位置，由此可以提高底布面的外观性。

（实施例 2）

图 9（1）是用于制造本发明的间隔织物的提花导纱梳节 PJB5、PJB6 中另一实施例的针织组织图，该实施例中，对于作为如图 2、图 3 所示的不进行提花控制的基本针织组织的相邻两针之间的薄地针织组织，基本针织组织是在一针上织成的链式组织的孔地针织组织 1a、2a。1c、2c 是孔地针织组织 1a、2a 在箭头方向上被提花控制而变成薄地针织组织的。图 9（2）～图 9（7）是表示提花控制（T、H）的各编织线圈处的变化组织的作用状态的说明图。图 9（2）表示将提花线 1 从孔地针织组织 1a 的基本组织变成闭口线圈的薄地针织组织 1c 的例子的场合，图 9（3）表示提花线 1 的基本组织的孔地针织组织 1a 不变化的场合，图 9（4）表示将提花线 1 的基本组织的孔地针织组织 1a 的基本组织变成开口线圈的薄地针织组织 1d 的场合。图 9（5）表示将提花线 2 从孔地针织组织 2a 的基本组织变成闭口线圈的薄地针织组织 2c 的例子的场合，图 9（6）表示提花线 2 的基本组织的孔地针织组织 2a 不变化的场合，图 9（7）表示将提花线 2 的基本组织的孔

地针织组织 2a 的基本组织变成开口线圈的薄地针织组织 2d 的场合。

采用上述针织组织的实施例的话，对于薄地针织组织，由于作成了闭口线圈和开口线圈的两种，显出网眼时提花线 1、2 造成的收拢状态改变的结果是，即使是相同的编织线圈，也可以形成外观不同的网眼形状，扩展了网眼构成中的变型性。而且，虽然在上述实施例的针织组织中，提花导纱梳节 PJB5、PJB6 的针前垫纱的方向是相反的，不用说，即使两提花导纱梳节 PJB5、PJB6 的针前垫纱的方向是同方向地进行编织，当然也是属于本发明的制法的。

图 10 是表示由本发明的制法制成的间隔织物的一例的轴测图，由前部底布 FF、后部底布 RF、将这些底布 FF、RF 连接的连接线 3 形成，在前部底布 FF 中构成了网眼粗度不同的多种，例如两种网眼部混杂的网眼地纹组织。M1 是所述网眼地纹组织中网眼细小的网眼部，M2 是网眼粗的网眼部，所述网眼部 M2 构成四个网眼以接近状态配置的花纹样式。P1 是混杂在网眼地纹组织中的平针地纹组织，由图 9 所示的提花线 1、2 形成的薄地针织组织 1c、2c 形成。P2 是平针地纹组织，由图 3(3)、图 3(4) 所示的提花线 1、2 形成的厚地针织组织 1b、2b 形成，由平针地纹组织 P2 进行花纹花样的构成。

虽然在图中未图示，但是本发明在前后部双方的底布中，也可以与上述实施例同样地实施编织，构成由分别在两列提花导纱梳节引纱的提花线形成的网眼地纹组织。在此情况下，作为经编机，使用在前方侧和后方侧分别设有两列（合计四列）提花导纱梳节的经编机进行编织。

（使用例）

图 11 是表示将本发明的间隔织物用于鞋的鞋面材料的至少一部分的使用例的轴测图。鞋面材料由构成左右侧部分的壁部件 10、11，和覆盖胛部的鞋舌件 12、覆盖脚趾的脚趾部件 13、构成后跟的后跟部件 14 等各部件构成，各部件被缝制成一体，连接在鞋底部件 15 上。在壁部件 10、11 上，配置着包含由一方的提花线形成的薄地针织组织的平针地纹组织 16 中的大、中、小三种网眼 17、18、19，同时，设

置着包含由一方的提花线形成的厚地针织组织的线条 20。在鞋舌部件 12 上,在包含由一方的提花线形成的薄地针织组织的平针地纹组织 21 中细细地有规则地排列着网眼 22。脚趾部件 13 由包含两种提花线的两侧的厚地针织组织构成的侧片 23、(24),和具有与其相接连在一起的网眼的脚趾片 25 构成。后跟部件 14 由包含两种提花线形成的厚地织物的后跟片 6,和包含由一方的提花线形成的厚地织物的根部缘片 26 构成。在所述壁部件 10、11 以外的各部件上也可以使用本发明的间隔织物。

如上所述构成的鞋的鞋面材料,适当实施了在每个部位考虑通气等功能性的网眼构成,以及考虑强度的厚薄三种编织方法形成的平针地纹组织的配置,和基于提花控制的线条等的花样结构。当然,在本实施例中的花样构成的一个线条之外,还可以自由地加入生产厂家的标识商标等。

图 12 是表示将本发明的间隔织物用于无袖上衣的使用例的轴测图。27、28 是与后身大片 29 和右身前片 30 及前身大片 31 连接的缝制部位。在制造时,通过结合部位 32、33 对后身大片 29、右前身大片 30 以及左前身大片 31 进行连接编织,是与最终形状相吻合地将袖缘 34、35 以及前部缘 36、37 剪切成所要的形状后,折成两折进行缝制的。后身大片 29、一部分的右前身大片 30 以及左前身大片 31 是由两种提花线形成的薄地织物构成的,同时,线条 38、38 是包含一方的提花线的厚地织物的构成,线条 41、41 也是包含一方的提花线形成的厚地织物的构成。而且,兜,是在包含两方的提花线的薄地织物的平针地纹组织上有点状的网眼 39 的兜片 40、40 连接成的。这些构成无袖上衣的所述各前后身大片或兜片等的部件中,可以使用本发明的间隔织物。

图 13 是以与上述实施例相同的方法制造的背心。在制造时,可以将设有包含一方的提花线形成的厚地织物的线条 46 的前身大片 45、具有两种网眼尺寸的网眼 47、48,以及具有包含两种提花线形成的厚地织物的襟部 49 的后身大片 44,分别与最终状态吻合地从织成的物

件剪切袖缘 52、53 以及前部缘 54 而剪切成所要的形状，然后，将该前后身大片以缝制部位 42、50、43、51 进行缝制，或将缝制部位 50、51 作为结合部位织成一体，然后将前身大片 45 与后身大片 44 两折折叠，为了制作肩线而将织成一体的部分斜向切断，然后，对切断的部位进行缝制。在所述后身大片 44 之外，在前身大片 45 上也可以使用本发明的间隔织物。

图 14 表示本发明的间隔织物作为构成沙发的座套的一部分的片部件 55 使用的用例。片部件 55 是将靠背部分 56、落座部分 57 和搭脚部分 58 这三部分编织成一体的部件，从靠背部分 56 到搭脚部分 58，呈阶梯状地连续设置了大大小小的网眼，具有作为沙发用片部件所需要的弹性或通气性的同时，外观上也具备优异的网眼的美丽外观设计。

图 15 是表示在帽子的一部分使用了本发明的间隔织物的用例的轴测图。盖部件 59，对于切分成圆形的间隔织物、对于分为八部分的各部片 60、61...、对于各个平针地纹组织 68，网眼 69 以各种尺寸、配置构成，通过将各部片 60、61...之间设置的扇形的舍去部分切掉，而构成碗状的盖部。然后，通过缝制帽檐部 70 和帽顶部 71 而制成产品。

工业上的可利用性

本发明的间隔织物在上述鞋面材料、无袖上衣、背心、沙发的座套、帽子等的用途之外，还可以发挥其功能性、外观设计性而广泛用于室内装饰用品、包具材料、体育服装材料等各种工业领域。

图1

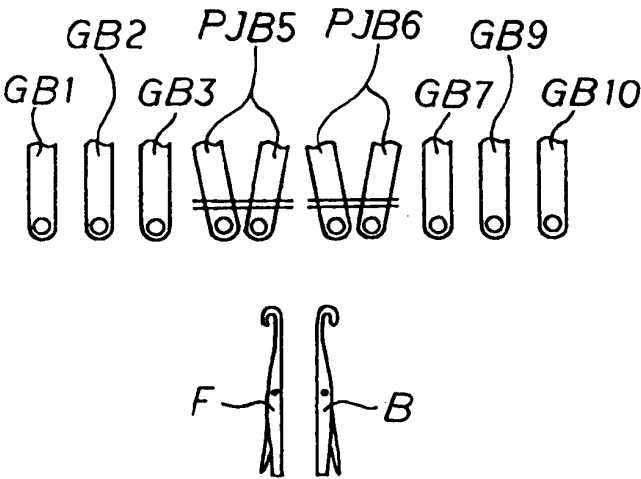


图2

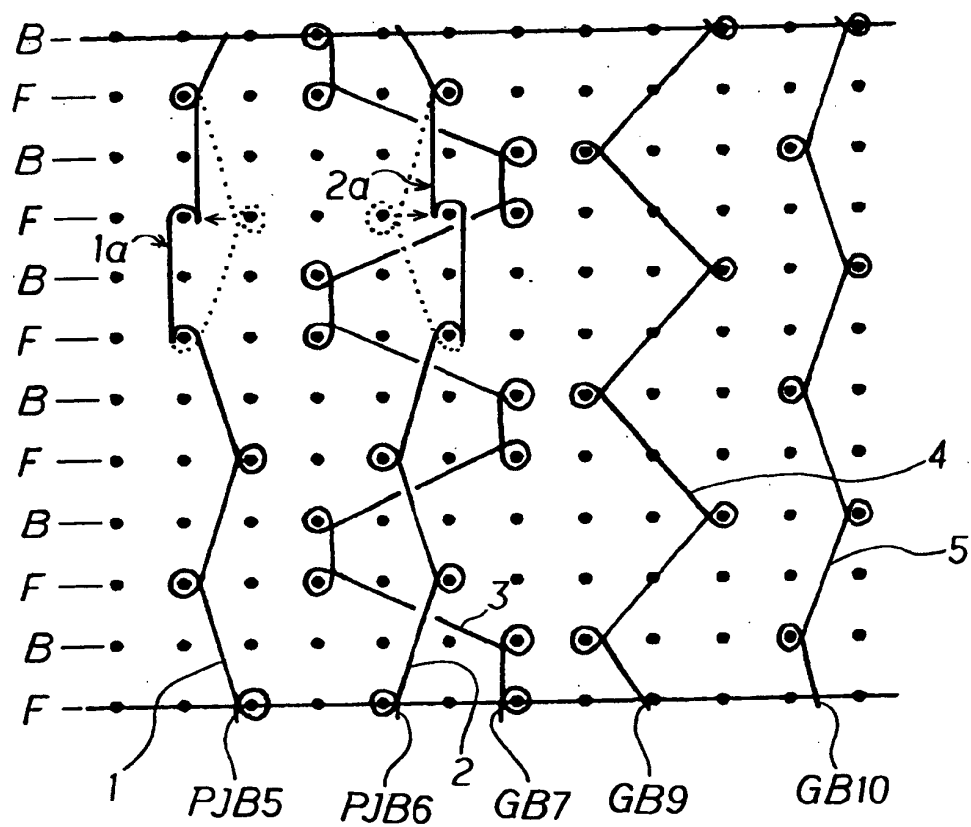


图3

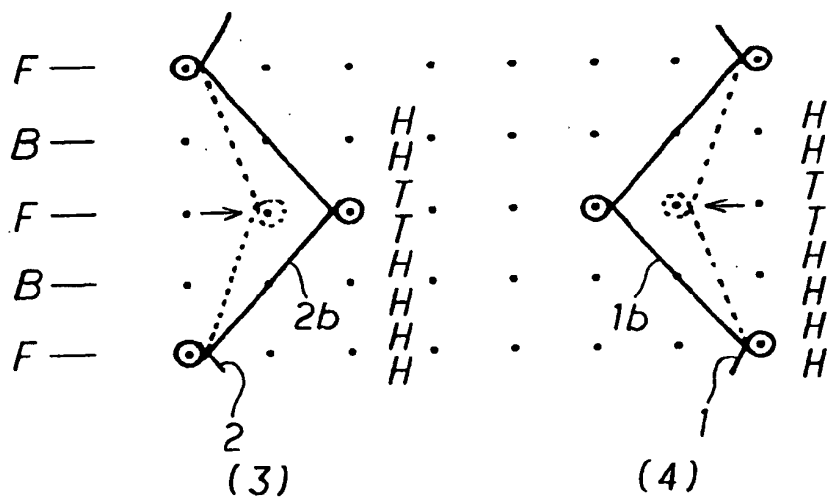
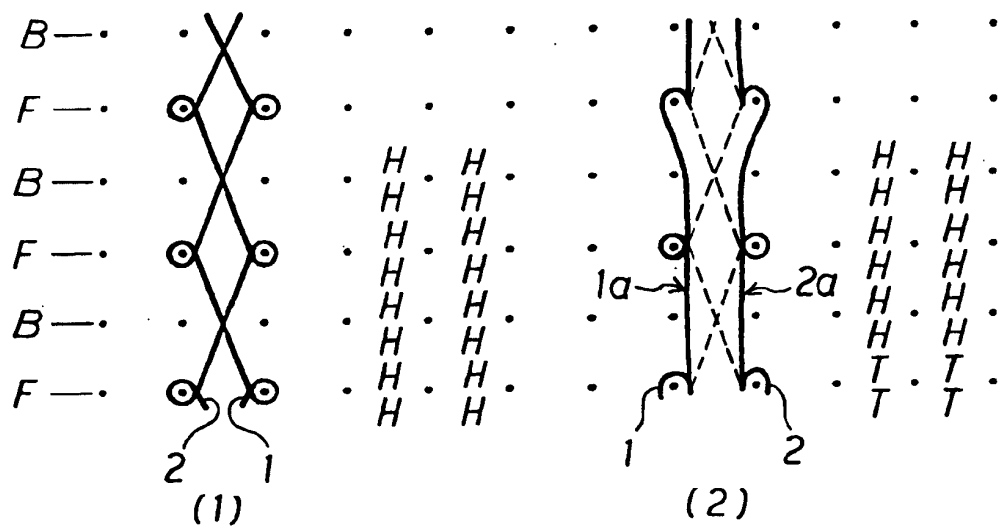


图 4

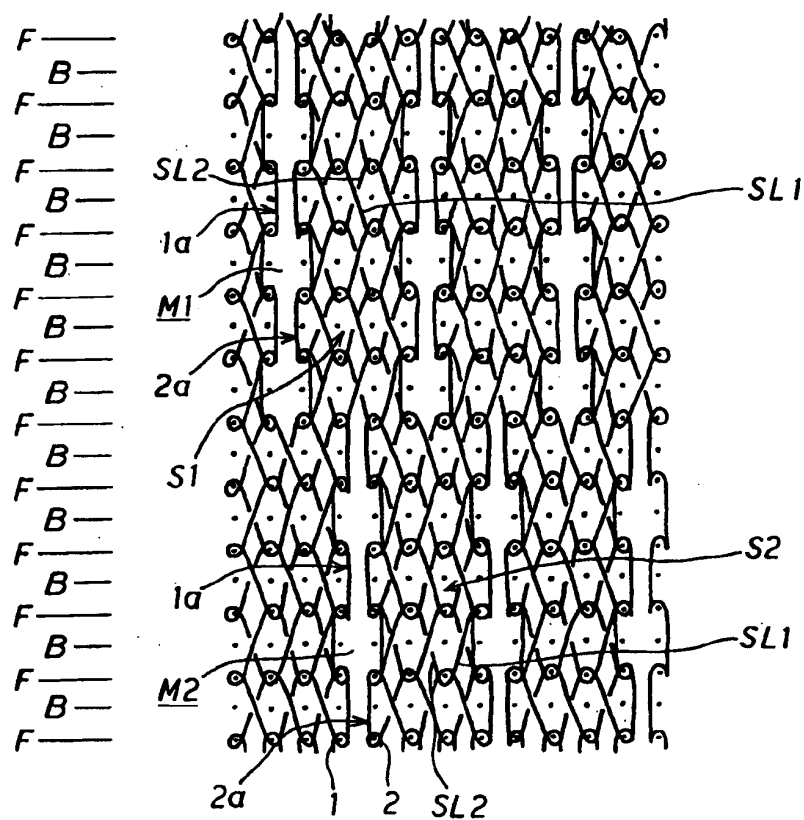


图 5

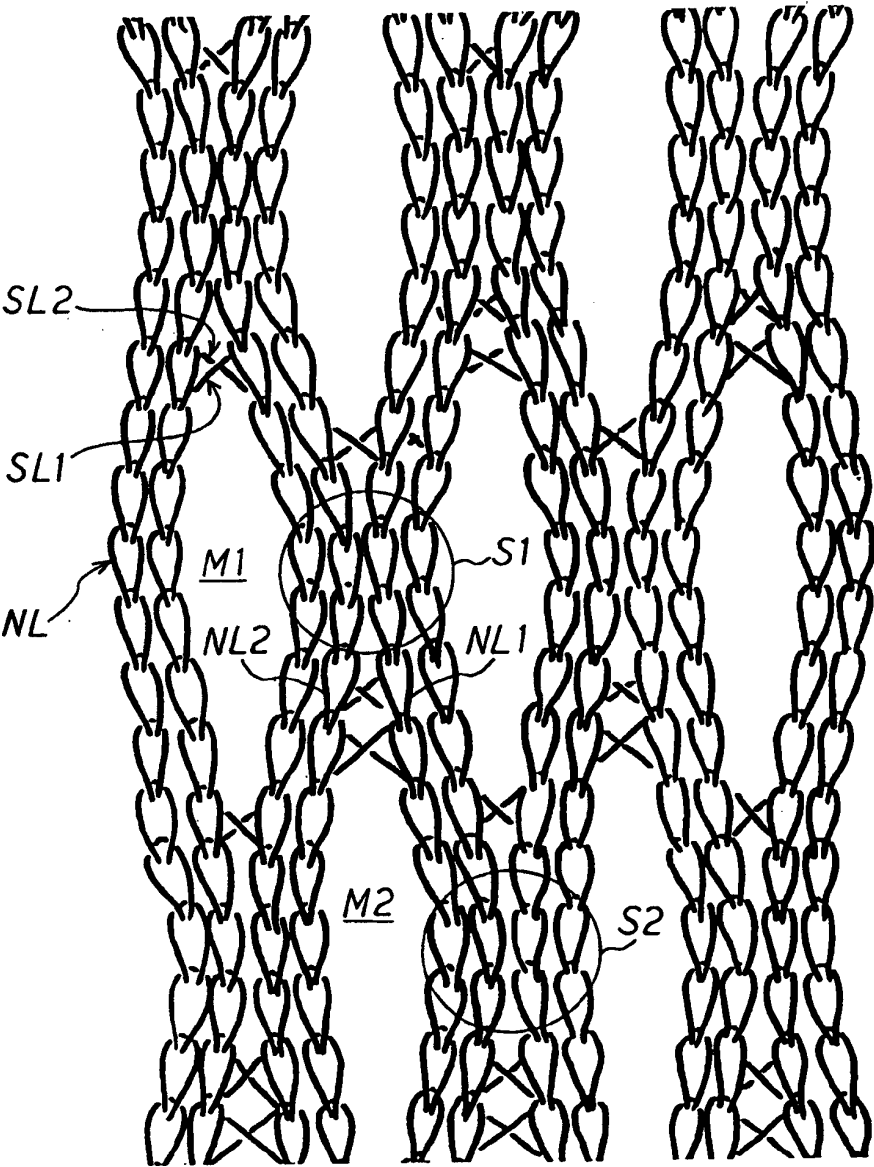


图6

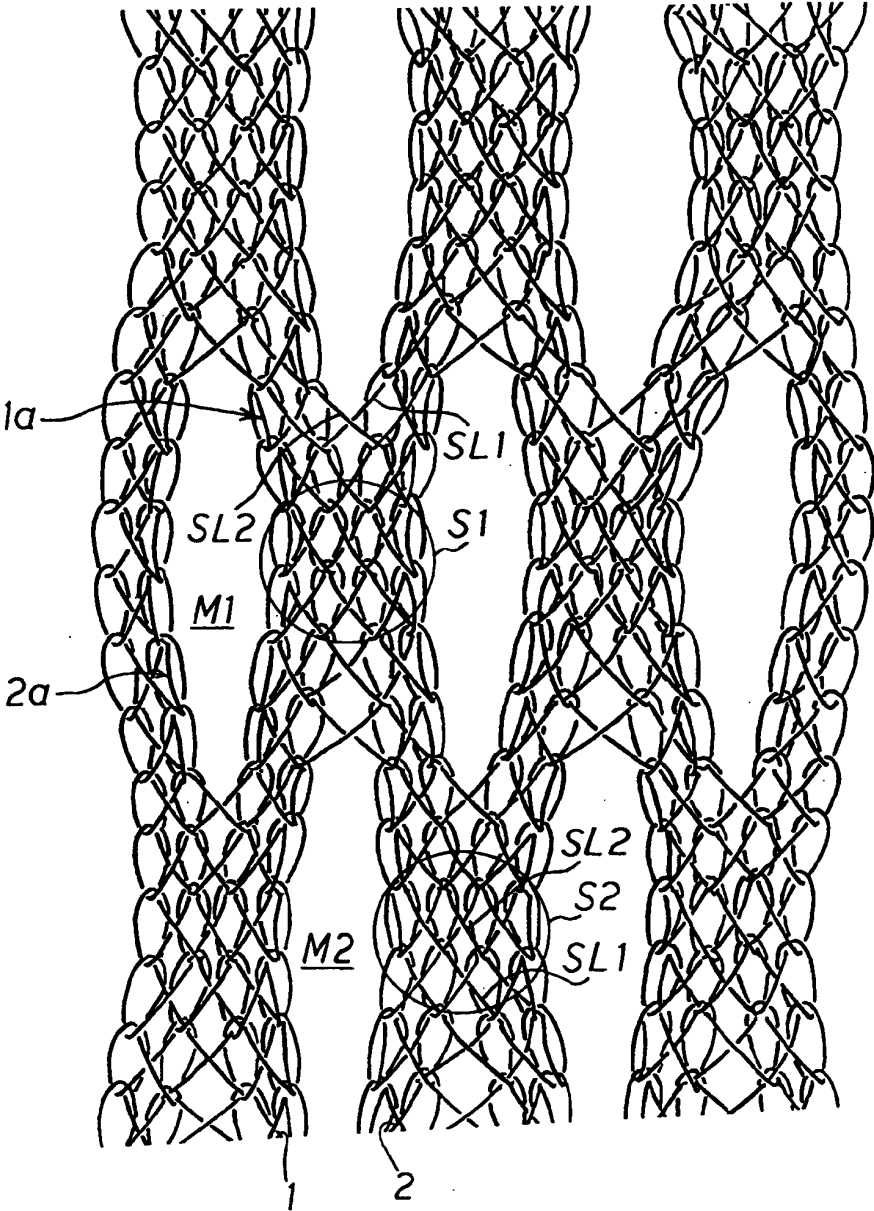


图7

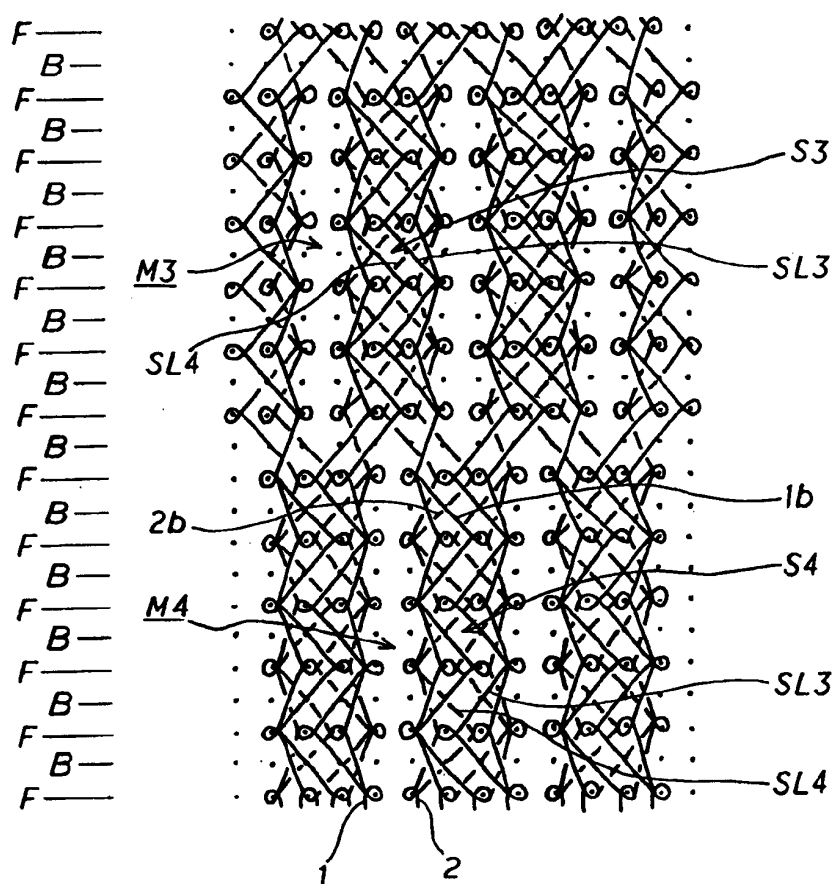


图 8

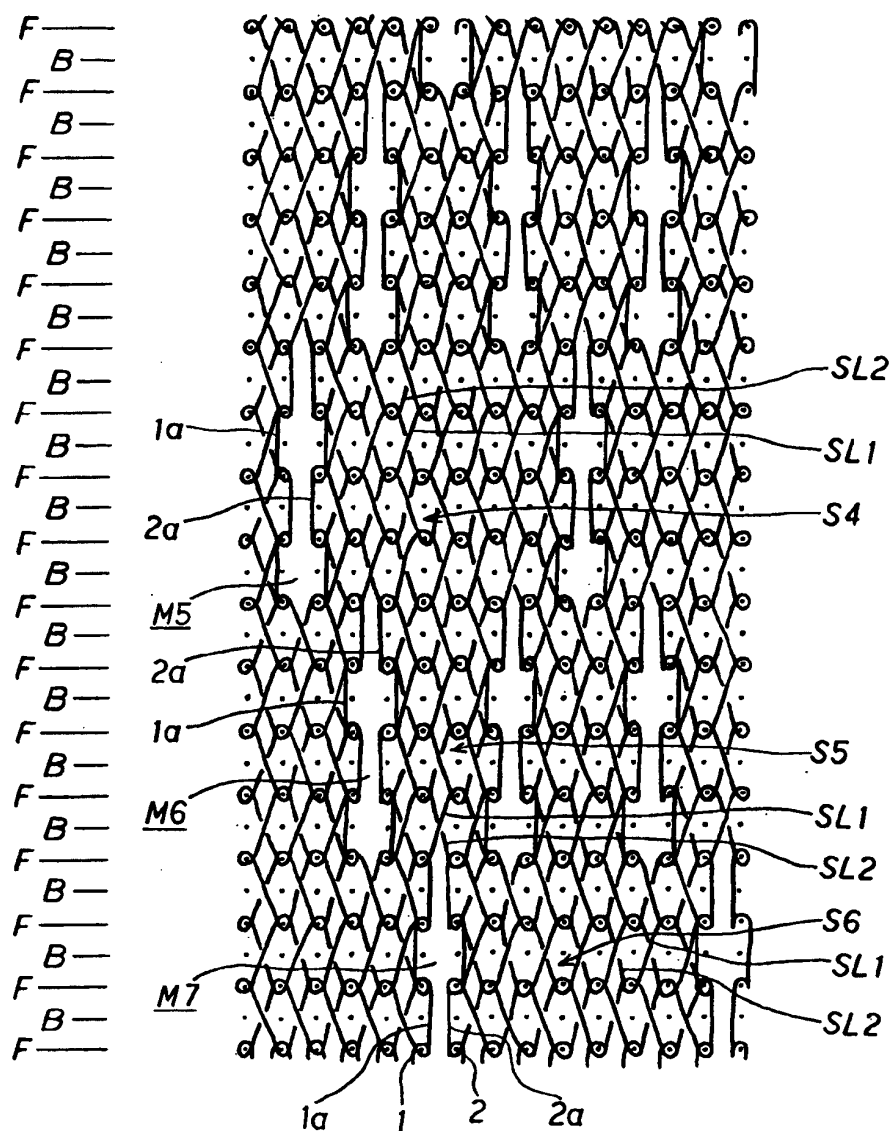


图9

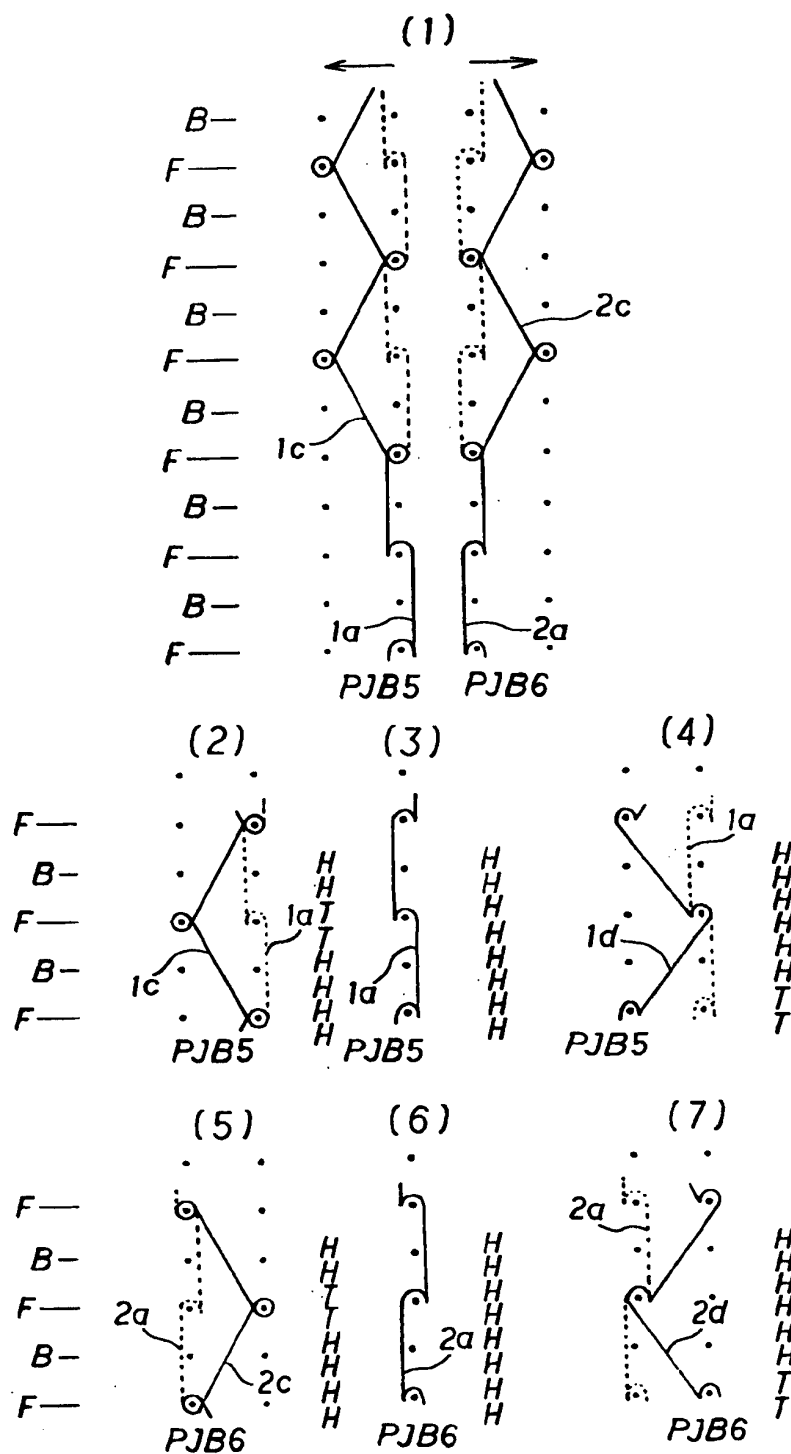


图10

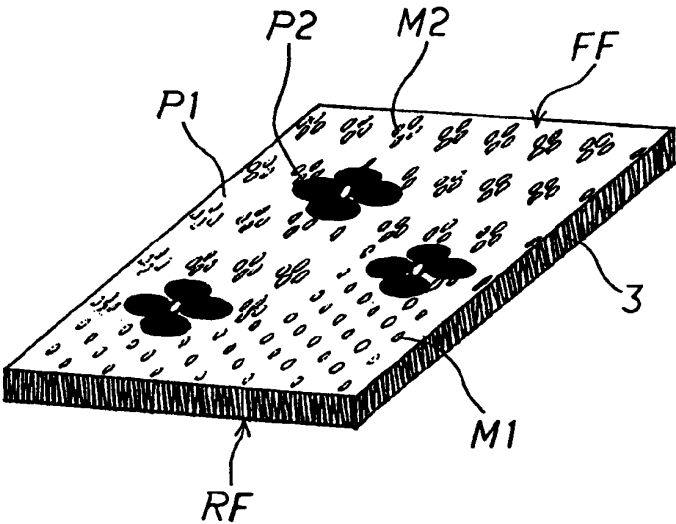


图 11

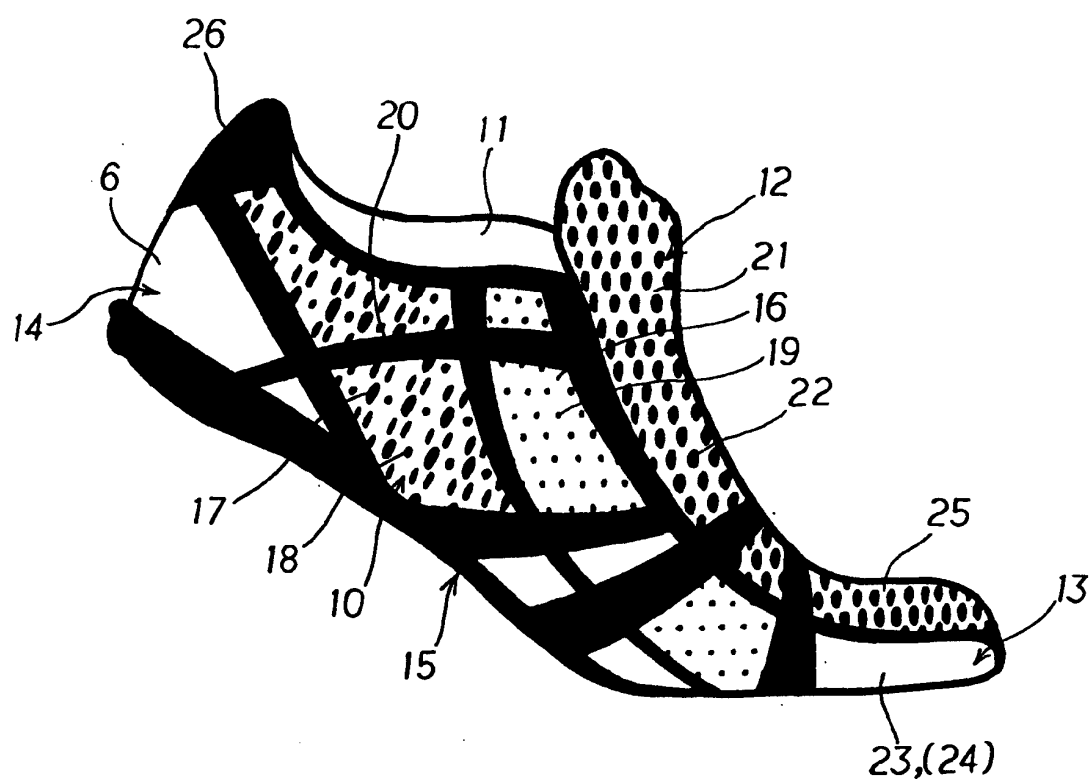


图 12

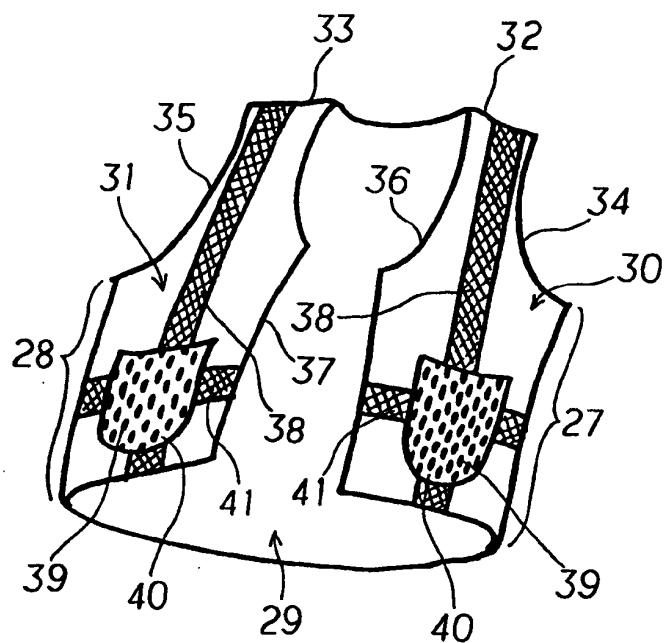


图 13

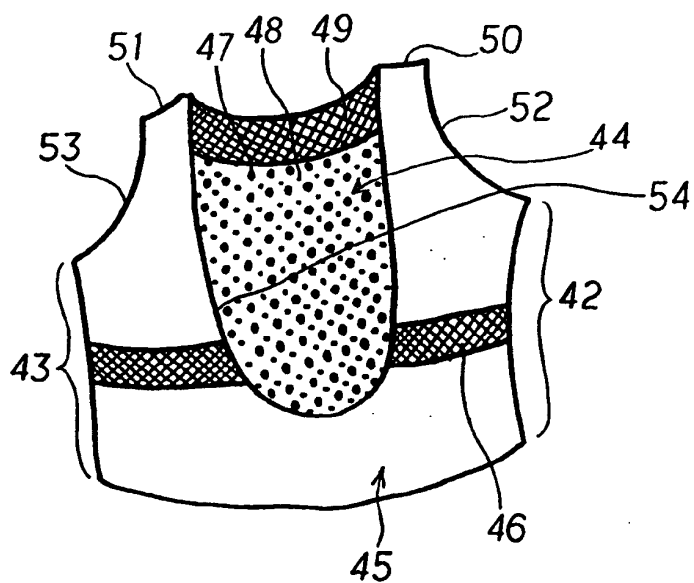


图 14

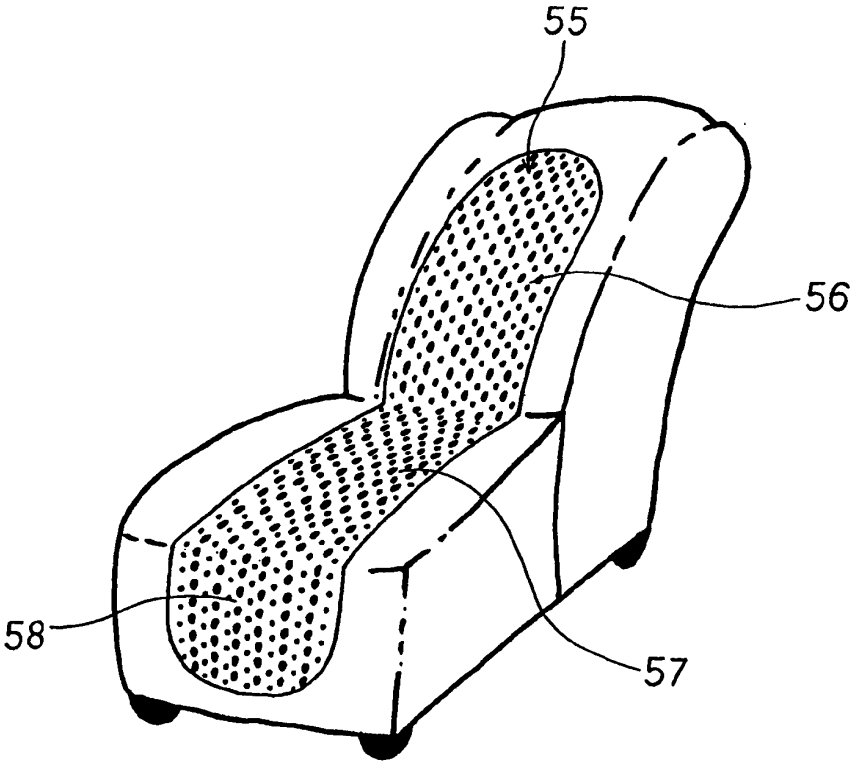
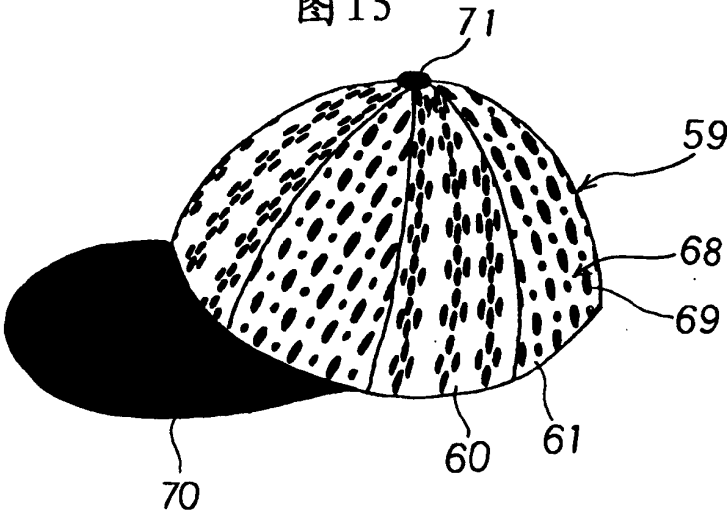


图 15





Espacenet

Bibliographic data: CN102271548 (A) — 2011-12-07

Article Of Footwear Having An Upper Incorporating A Knitted Component

Inventor(s):**Applicant(s):**

Classification: - international: A43B23/02; A43B7/20; A43C1/04
- cooperative: A43B1/04; A43B23/0205; A43B23/0215;
A43B23/0245; A43B7/20; A43C1/04; D04B1/106

Application number: CN20098150405 20090914

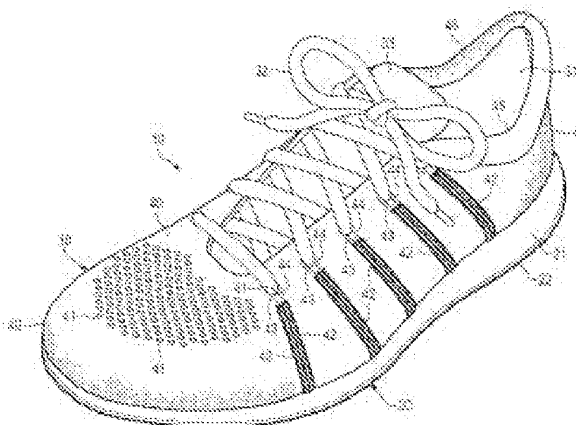
Priority number(s): WO2009US56795 20090914 ; US20080338726 20081218

Also published as: CN102271548 (B) US2010154256 (A1) US8490299 (B2)
US2014230277 (A1) US2014245639 (A1) more

Abstract not available for CN102271548 (A)

Abstract of corresponding document: US2010154256 (A1)

An article of footwear has an upper that includes a knitted component and a sole structure secured to the upper. The knitted component may define a tube formed of unitary knit construction, and a strand may extend through a length of the tube. As another example, the knitted component may have a pair of at least partially coextensive knitted layers formed of unitary knit construction, and a plurality of floating yarns may extend between the knitted layers. In some configurations, the knit type or yarn type may vary in different regions of the knitted component to impart different properties. Additionally, the knitted component may incorporate a thermoplastic yarn that is fused in different regions of the knitted component to impart different properties. A flat knitting process or a variety of other knitting processes may be utilized to form the knitted component.





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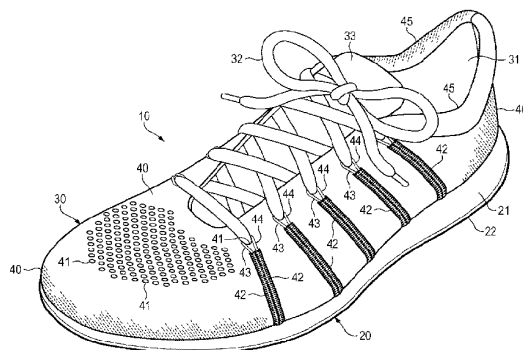
权利要求书 4 页 说明书 9 页 附图 15 页

(54) 发明名称

具有结合了编织部件的鞋面的鞋类物品

(57) 摘要

一种鞋类物品 (10), 其具有包括编织部件的鞋面 (30) 和固定至所述鞋面的鞋底结构 (20)。所述编织部件可以限定由整体编织构造形成的管 (42), 并且股状物 (43) 可以延伸穿过一定长度的所述管。作为另一个示例, 所述编织部件可以具有由整体编织构造形成的一对至少部分地共同延伸的编织层, 且多根浮纱可以在所述编织层之间延伸。在一些构造中, 编织类型或纱线类型可以在所述编织部件的不同区域中改变以赋予不同的特性。此外, 所述编织部件可以结合热塑性纱, 所述热塑性纱在所述编织部件的不同区域中被熔合以赋予不同的特性。可以使用平编织工艺或各种其它编织工艺以形成所述编织部件。



1. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括:
编织部件,其限定由整体编织构造形成的管状结构;以及
纱线,其具有一维材料的构造,所述纱线延伸穿过一定长度的所述管的至少一部分。
2. 如权利要求 1 所述的鞋类物品,其中所述编织部件沿着所述鞋面的外侧面、沿着所述鞋面的内侧面、在所述鞋面的鞋前部区域上,以及围绕所述鞋面的鞋跟区域延伸。
3. 如权利要求 2 所述的鞋类物品,其中所述管状结构安置在所述鞋面的外侧面上并定向为从接近所述鞋底结构的区域向上延伸,且所述纱线从所述管状结构的端部向外延伸以形成容纳鞋带的环。
4. 如权利要求 2 所述的鞋类物品,其中所述管状结构安置在所述鞋跟区域中并围绕所述鞋面的脚踝开口的至少一部分,且所述纱线和多根额外的纱线安置在所述管状结构内。
5. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括:
第一编织层,其形成所述鞋面的外表面的至少一部分;
第二编织层,其与所述第一编织层由整体编织构造形成,所述第二编织层安置为邻近所述第一编织层并与所述第一编织层至少部分地共同延伸以在所述第一编织层与所述第二编织层之间限定管;以及
股状物,其具有一维材料的构造,所述股状物延伸穿过所述管并在所述第一编织层与所述第二编织层之间延伸。
6. 如权利要求 5 所述的鞋类物品,其中所述第一编织层沿着所述鞋面的外侧面、沿着所述鞋面的内侧面、在所述鞋面的鞋前部区域上,以及围绕所述鞋面的鞋跟区域延伸。
7. 如权利要求 5 所述的鞋类物品,其中所述管定向为从接近所述鞋底结构的区域向上延伸,所述股状物的一部分从所述管的端部向外延伸并形成容纳鞋带的环。
8. 如权利要求 7 所述的鞋类物品,其中所述第一编织层限定邻近所述管的所述端部的孔,且所述鞋带延伸穿过所述孔。
9. 如权利要求 7 所述的鞋类物品,其中所述股状物延伸至由所述第一编织层和所述第二编织层形成的另一个管中。
10. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括:
编织部件,其限定第一管和第二管,所述第一管和所述第二管每个由整体编织构造形成,所述第一管和所述第二管从接近所述鞋底结构的区域以向上的方向延伸,且所述第一管和所述第二管的端部安置在所述鞋面的上部区域中;
股状物,其延伸穿过所述第一管和所述第二管,所述股状物的一部分从所述第一管和所述第二管的所述端部向外延伸以形成环;以及
鞋带,其延伸穿过所述环。
11. 如权利要求 10 所述的鞋类物品,其中所述第一管和所述第二管相互接近且平行。
12. 如权利要求 10 所述的鞋类物品,其中所述编织部件限定邻近所述第一管和所述第二管的所述端部的孔,且所述鞋带延伸穿过所述孔。
13. 如权利要求 10 所述的鞋类物品,其中所述编织部件包括:
一对至少部分地共同延伸的编织层,其由整体编织构造形成;以及
多根浮纱,其在所述编织层之间延伸。
14. 如权利要求 13 所述的鞋类物品,其中所述编织层和所述浮纱安置为邻近所述鞋面

的脚踝开口。

15. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括:

编织部件,其限定由整体编织构造形成的多个管,所述管的第一部分安置在所述鞋类的外侧面上,且所述管的第二部分安置在所述鞋类的内侧面上;

至少一根股状物,其延伸穿过所述管并从管的端部向外延伸以形成多个环,所述股状物具有一维材料的构造;以及

鞋带,其延伸穿过所述环。

16. 如权利要求 15 所述的鞋类物品,其中所述编织部件限定邻近所述管的所述端部的孔,且所述鞋带延伸穿过所述孔。

17. 如权利要求 15 所述的鞋类物品,其中所述管中的至少两个相互接近且平行。

18. 如权利要求 15 所述的鞋类物品,其中所述编织部件形成所述鞋面的外表面的大部分。

19. 如权利要求 15 所述的鞋类物品,其中所述编织部件包括:

一对至少部分地共同延伸的编织层,其由整体编织构造形成;以及

多根浮纱,其安置在所述编织层之间并在基本上平行于所述编织层的方向上延伸,

所述编织层和所述浮纱安置为邻近所述鞋面的脚踝开口。

20. 如权利要求 15 所述的鞋类物品,其中所述编织部件的第一区具有第一编织类型,而所述编织部件的第二区具有第二编织类型,所述第一编织类型不同于所述第二编织类型。

21. 如权利要求 15 所述的鞋类物品,其中所述编织部件的第一区具有第一纱线类型,而所述编织部件的第二区具有第二纱线类型,所述第一纱线类型不同于所述第二纱线类型。

22. 一种鞋类物品,其具有包括鞋带系统的鞋面,所述鞋带系统包括:

编织部件,其限定 (a) 由整体编织构造形成的管和 (b) 邻近所述管的端部安置的孔;

股状物,其延伸穿过所述管并形成环;以及

鞋带,其延伸穿过所述环和所述孔。

23. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括编织部件,所述编织部件包括:

第一编织层和第二编织层,所述第一编织层和第二编织层相互之间至少部分地共同延伸且由整体编织构造形成;以及

多根浮纱,其安置在所述第一编织层和所述第二编织层之间并在基本上平行于所述第一编织层和所述第二编织层的方向上延伸。

24. 如权利要求 23 所述的鞋类物品,其中所述鞋面限定内部空腔以及脚踝开口,所述内部空腔用于容纳足部,所述脚踝开口提供所述空腔的入口,所述第一编织层、所述第二编织层以及所述浮纱安置为邻近所述脚踝开口。

25. 如权利要求 24 所述的鞋类物品,其中所述第一编织层、所述第二编织层以及所述浮纱安置在所述鞋面的内侧面上和所述鞋面的外侧面上。

26. 如权利要求 23 所述的鞋类物品,其中所述编织部件限定由整体编织构造形成的管,且股状物延伸穿过一定长度的所述管。

27. 如权利要求 23 所述的鞋类物品,其中所述编织部件的第一区具有第一编织类型,且所述编织部件的第二区具有第二编织类型,所述第一编织类型不同于所述第二编织类型。

28. 如权利要求 23 所述的鞋类物品,其中所述编织部件的第一区具有第一纱线类型,且所述编织部件的第二区具有第二纱线类型,所述第一纱线类型不同于所述第二纱线类型。

29. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面包括编织部件,所述编织部件包括:

第一编织层和第二编织层,所述第一编织层和第二编织层由整体编织构造形成,所述第一编织层与所述第二编织层至少部分地共同延伸以限定在所述第一编织层与所述第二编织层之间的内部容积;以及

多根浮纱,其安置于所述内部容积内并在所述第一编织层与所述第二编织层之间延伸。

30. 如权利要求 29 所述的鞋类物品,其中所述鞋面限定内部空腔和脚踝开口,所述内部空腔用于容纳足部,所述脚踝开口提供所述空腔的入口,所述第一编织层、所述第二编织层以及所述浮纱安置为邻近所述脚踝开口。

31. 如权利要求 30 所述的鞋类物品,其中所述第一编织层、所述第二编织层以及所述浮纱安置在所述鞋面的内侧面上、安置在所述鞋面的外侧面上,以及围绕所述鞋面的鞋跟区域延伸。

32. 一种鞋类物品,其具有鞋面和固定到所述鞋面的鞋底结构,所述鞋面限定用于容纳穿用者的足部的内部空腔,且所述鞋面具有提供所述空腔的入口的脚踝开口,所述鞋面包括编织部件,所述编织部件包括:

第一编织层,其形成所述鞋面的外表面的邻近所述脚踝开口的至少一部分;

第二编织层,其形成所述鞋面的内表面的邻近所述脚踝开口的至少一部分;以及

多根浮纱,其安置在所述第一编织层与所述第二编织层之间,

其中所述第一编织层和所述第二编织层在所述脚踝开口处和在与所述脚踝开口隔开的位置处相互连接以在所述第一编织层和所述第二编织层之间限定隔开的区域,且所述浮纱安置于所述隔开的区域中。

33. 如权利要求 32 所述的鞋类物品,其中所述编织部件沿着所述鞋面的外侧面、沿着所述鞋面的内侧面、在所述鞋面的鞋前部区域上,以及围绕所述鞋面的鞋跟区域延伸。

34. 如权利要求 32 所述的鞋类物品,其中所述浮纱基本上平行于所述第一编织层和所述第二编织层。

35. 如权利要求 32 所述的鞋类物品,其中所述编织部件的安置在所述鞋类的鞋中部区域中的一部分限定由整体编织构造形成的管,且股状物延伸穿过一定长度的所述管。

36. 一种制造鞋类物品的方法,所述方法包括:

使用平编织工艺来形成编织部件,所述编织部件包括结合了热塑性聚合物材料的至少一根纱线;

加热至少所述编织部件的区域以熔合结合了所述热塑性聚合物材料的所述纱线;以及
将所述编织部件结合到所述鞋类物品的鞋面中。

37. 如权利要求 36 所述的方法,其中使用平编织工艺的步骤包括在整个所述编织部件中安置结合了所述热塑性聚合物材料的所述纱线。

38. 如权利要求 36 所述的方法,其中使用平编织工艺的步骤包括在仅仅所述编织部件的所述区域中安置结合了所述热塑性聚合物的所述纱线。

39. 如权利要求 36 所述的方法,其中结合的步骤包括在所述鞋类的鞋跟区域中安置所述编织部件的所述区域。

40. 如权利要求 36 所述的方法,其中结合的步骤包括在所述鞋类的鞋前部区域中安置所述编织部件的所述区域。

41. 一种制造鞋类物品的方法,所述方法包括:

使用平编织工艺来形成编织部件,所述编织部件包括第一编织层、第二编织层以及固定到所述第一编织层和所述第二编织层并从所述第一编织层延伸至所述第二编织层的多根纱线;以及

将所述编织部件结合到所述鞋类物品的鞋面中。

42. 如权利要求 41 所述的方法,还包括步骤:将所述纱线选择为单丝纱。

具有结合了编织部件的鞋面的鞋类物品

[0001] 背景

[0002] 常规的鞋类物品通常包括鞋面和鞋底结构两个主要组成部分。鞋面固定到鞋底结构并形成用于舒适而稳妥地容纳足部的鞋类内部的空腔。鞋底结构固定到鞋面的下表面以便置于鞋面和地面之间的位置。例如,在一些运动鞋类物品中,鞋底结构可以包括鞋底夹层和鞋外底。鞋底夹层可以由聚合物泡沫材料形成,聚合物泡沫材料衰减地面反作用力以减轻在行走、跑步、和其它步行活动中足部和腿部上的压力。鞋外底固定到鞋底夹层的下表面并形成鞋底结构的地面接触部分,所述鞋底结构由耐用且耐磨的材料形成。鞋底结构还可以包括置于空腔内并最接近足部的下表面以增强鞋类舒适性的鞋垫 (sockliner)。

[0003] 鞋面通常在足部的脚背和脚趾区域上、沿着足部的内侧面和外侧面、以及围绕足部的足跟区域延伸。在一些鞋类物品中,例如篮球鞋和靴子,鞋面可以向上并围绕脚踝延伸以提供对脚踝的支撑或保护。鞋面内部空腔的入口通常由鞋类的鞋跟区域中的脚踝开口提供。鞋带系统通常结合到鞋面中以调节鞋面的贴合性,从而允许足部从鞋面内的空腔进入和移出。鞋带系统还允许穿用者改变鞋面的某些尺寸(特别是围长)以适应不同尺寸的足部。此外,鞋面可以包括在鞋带系统下方延伸的鞋舌以增强鞋类的可调节性,并且鞋面可以结合足跟稳定器 (heel counter) 以限制足跟的移动。

[0004] 在鞋面制造中通常使用各种材料。例如,运动鞋类的鞋面可以由多个材料元件形成。材料可以根据包括例如抗拉伸性、耐磨性、柔韧性、透气性、压缩性和水分芯吸性 (moisture-wicking) 的各种特性来选择。就鞋面的外层 (exterior) 而言,脚趾区域和鞋跟区域可以由皮革、合成皮革或橡胶材料形成以赋予相对高程度的耐磨性。皮革、合成皮革和橡胶材料可以不呈现用于外层的其它不同区域的期望程度的柔韧性和透气性。因此,外层的其它区域例如可以由合成织物形成。因此,鞋面的外层可以由多个材料元件形成,每个材料元件为鞋面赋予不同的特性。鞋面的中间层或中心层可以由提供缓冲并增强舒适性的轻质聚合物泡沫材料形成。类似地,鞋面的内层 (interior) 可以由舒适的和水分芯吸性的织物形成,其从直接围绕足部的区域排汗。各种材料元件和其它部件可以使用粘合剂或缝合来连接。相应地,常规的鞋面由各种材料元件形成,每个材料元件为鞋类的不同区域赋予不同的特性。

[0005] 发明概述

[0006] 可以使用平编织工艺 (flat knitting process) 或许多其它编织工艺来形成鞋类物品的鞋面的编织部件 (knitted component)。各种特征可以结合到编织部件中。例如,编织部件可以限定由整体编织构造 (unitary knit construction) 形成的管,且股状物可以延伸穿过一定长度的管。作为另一个示例,编织部件可以具有由整体编织构造形成的一对至少部分地共同延伸的编织层,且多根浮纱 (floating yarn) 可以在编织层之间延伸。在一些构造中,编织类型或纱线类型可以在编织部件的不同区域中变化以赋予不同的特性。此外,编织部件可以结合热塑性纱,该热塑性纱在编织部件的不同区域中被熔合以赋予不同的特性。

[0007] 所附权利要求详细指出了表征本发明各方面的优势和新颖特征。然而,为了获得

对优势和新颖特征更好地理解,可以参考描述和说明与本发明有关的各种构造和概念的以下描述性内容和附图。

附图说明

[0008] 当结合附图阅读时,将更好地理解前述的概述以及下面的详述。

[0009] 图 1 是鞋类物品的透视图。

[0010] 图 2 是鞋类物品的外侧视图。

[0011] 图 3 是鞋类物品的内侧视图。

[0012] 图 4 是鞋类物品的顶部平面图。

[0013] 图 5A-5D 是鞋类物品的剖面图,如分别由图 2 中的剖面线 5A-5D 所界定的。

[0014] 图 6 是形成鞋类物品的鞋面的一部分的编织部件的顶部平面图。

[0015] 图 7A-7G 是与图 2 相对应并描述了鞋类物品的进一步构造的侧视图。

[0016] 图 8A 和 8B 是与图 5D 相对应并描述了鞋类物品的进一步构造的剖面图。

[0017] 详述

[0018] 下面的讨论和附图公开了具有包括编织部件的鞋面的鞋类物品。鞋类物品公开为具有适合于行走或跑步的一般构造。与鞋类相关的概念(包括鞋面)也可以应用于各种其它运动鞋类型式,例如包括棒球鞋、篮球鞋、多用途训练鞋、骑行鞋(cycling shoe)、橄榄球鞋、网球鞋、足球鞋和远足鞋。这些概念还可以应用于通常被认为是非运动型的鞋类型式,包括礼服鞋、便鞋(loafer)、凉鞋和工作靴。因此,本文所公开的这些概念适用各种各样的鞋类型式。

[0019] 常规鞋类结构

[0020] 鞋类物品 10 在图 1-5D 中描述成包括鞋底结构 20 和鞋面 30。为了参考的目的,鞋类 10 可以分成三个大致区域:鞋前部区域 11、鞋中部区域 12 和鞋跟区域 13,如图 2 和图 3 中所显示的。鞋类 10 还包括外侧面 14 和内侧面 15。鞋前部区域 11 通常包括鞋类 10 的对应于脚趾和连接跖骨和趾骨的关节的部分。鞋中部区域 12 通常包括鞋类 10 的对应于足部的足弓区域的部分,而鞋跟区域 13 对应于足部的后部部分,包括跟骨。外侧面 14 和内侧面 15 延伸穿过区域 11-13 中的每一个区域并对应于鞋类 10 的相对侧面。区域 11-13 和侧面 14-15 并不是要精确地划分鞋类 10 的区域。而是,区域 11-13 和侧面 14-15 用来表示鞋类 10 的大致区域以便帮助下面的论述。除了鞋类 10 之外,区域 11-13 和侧面 14-15 还可以应用到鞋底结构 20、鞋面 30 及其单个元件。

[0021] 鞋底结构 20 固定到鞋面 30 并当穿着鞋类 10 时在足部和地面之间延伸。鞋底结构 20 的主要组成部分是鞋底夹层 21、鞋外底 22 以及鞋垫 23。鞋底夹层 21 固定到鞋面 30 的下表面并可以由可压缩的聚合物泡沫元件(例如,聚氨基甲酸酯或乙烯醋酸乙烯酯泡沫)形成,可压缩的聚合物泡沫元件当在行走、跑步、或其它步行活动期间在足部和地面之间被压缩时衰减地面反作用力(即,提供缓冲)。在进一步的构造中,鞋底夹层 21 可以结合补充地面反作用力衰减特性的填充流体的囊,或鞋底夹层 21 可以主要由填充流体的囊形成。鞋外底 22 固定到鞋底夹层 21 的下表面并可以由具有某种结构以赋予附着摩擦力的耐磨橡胶材料形成。鞋垫 23 位于鞋面 30 内并安置为在足部下表面之下延伸。虽然鞋底结构 20 的此构造提供了可以与鞋面 30 一起使用的鞋底结构的实例,但也可以使用用于鞋底结构 20

的各种其它的常规或非常规构造。相应地,鞋底结构 20 或任何与鞋面 30 一起使用的鞋底结构的结构和特征可以显著地改变。

[0022] 鞋面 30 限定了鞋类 10 内的用于相对于鞋底结构 20 容纳和固定足部的空腔。所述空腔成形为容纳足部并沿着足部的外侧面、沿着足部的内侧面、在足部上方、围绕足跟、以及在足部下方延伸。通过位于至少鞋跟区域 13 中的脚踝开口 31 来提供空腔的入口。如在下文更详细地描述的,鞋带 32 延伸穿过鞋面 30 的部分,并允许穿用者改变鞋面 30 的尺寸以适应足部的大小。更具体地,鞋带 32 允许穿用者绷紧围绕足部的鞋面 30,且鞋带 32 允许穿用者松弛鞋面 30 以方便足部从空腔中(即,通过脚踝开口 31)进入和移出。此外,鞋面 30 包括在鞋带 32 下方延伸的鞋舌 33。

[0023] 鞋面 30 的大部分由编织部件 40 形成,编织部件 40 例如可以通过平编织工艺来制造。编织部件 40 穿过区域 11-13 中的每个区域、沿着外侧面 14 和内侧面 15、在鞋前部区域 11 上、以及围绕鞋跟区域 13 延伸。此外,编织部件 40 形成鞋面 30 的内表面和相对的外表面。就这点而论,编织部件 40 限定鞋面 30 内空腔的至少一部分,且编织部件 40 还限定脚踝开口 31 以提供空腔的入口。在一些构造中,编织部件 40 还可以在足部下方延伸。然而,为了各个图中的示例的目的,士多宝鞋内衬底(strobel sock)34 固定到编织部件 40 并形成鞋面 30 的在足部下方延伸的部分的大部分。在此构造中,鞋垫 23 在士多宝鞋内衬底 34 上方延伸并形成其上搁放足部的表面。

[0024] 编织部件的构造

[0025] 编织部件 40 结合了为鞋面 30 的不同区域(separate area)赋予不同特性的各种编织类型。如图 1、图 4 和图 5A 中所描述的示例,编织部件 40 形成多个孔 41,多个孔 41 延伸穿过鞋前部区域 11 中的鞋面 30,而鞋面 30 的许多其它区域具有更连续的构造或具有很少孔的构造。除了赋予更高的渗透性(其允许空气在鞋面 30 内流通)之外,孔 41 可以增加鞋前部区域 11 中的鞋面 30 的柔韧性和伸展性。如进一步的示例,可以通过为编织部件 40 的特定区域选择特定的编织类型来改变的其它特性包括液体渗透性、编织部件 40 伸展或抗伸展的方向、编织部件 40 的刚度、以及编织部件 40 的压缩性。具有用于鞋类鞋面的含不同编织类型以赋予不同特性的区域的编织部件的另外的实例可以在 Dua 的美国专利第 6,931,762 号和 Dua 等人的美国专利第 7,347,011 号中找到,这两篇专利通过引用整体并入本文。作为相关内容,编织部件 40 内的编织密度可以在鞋面 30 的不同的区域中变化以例如制作低渗透性或更硬的部分。相应地,编织部件 40 可以在不同的区域中呈现不同的特性,依赖于为这些区域所选择的特定编织类型。

[0026] 编织部件 40 还可以结合为鞋面 30 的不同区域赋予不同特性的各种纱线类型。此外,通过将各种纱线类型与不同缝合类型组合,编织部件 40 可以为鞋面 30 的不同区域赋予一系列不同的特性。特定的纱线类型将为编织部件 40 的区域赋予的特性部分地依赖于形成纱线内各种细丝(filament)和纤维的材料。例如,棉提供柔软的手感、天然的美感和生物降解性。弹性(elastane)和弹力聚酯(stretch polyester)各自提供基本的伸展性和可恢复性,弹力聚酯还提供可再利用性(recycleability)。人造丝(rayon)提供高光泽和吸湿性。羊毛状物除了绝缘特性之外,还提供高吸湿性。尼龙是具有高强度的耐用和耐磨材料。聚酯是也提供相对高的耐用性的疏水材料。除了材料以外,与纱线有关的其它方面可以影响鞋面 30 的特性。例如,纱线可以是单丝纱或复丝纱。纱线还可以包括不同的细

丝,每根细丝由不同材料形成。纱线还可以包括细丝,每根细丝由两种或更多种材料形成,例如具有皮芯(sheath-core)构造的细丝的双组分纱或具有由不同材料形成的两半的双组分纱。不同捻度和卷曲度、以及不同的旦尼尔(denier)可以影响放置纱线的鞋面30的特性。相应地,可以选择形成纱线的材料以及纱线的其它方面以便为鞋面30的不同区域赋予各种特性。

[0027] 除了编织类型和纱线类型之外,编织部件40可以结合各种编织结构。例如,参考图2和图3,编织部件40包括其中放置股状物43的多个管42。管42通常是由两个重叠的且至少部分地共同延伸的编织材料层形成的空心结构,如图5B和5C中所描述的。虽然形成管42的编织材料的一层的侧面或边缘可以固定到另一层,但是中间区域通常是未固定的,使得另一元件(例如,股状物43)可以放置在编织材料的两层之间并穿过管42。用于鞋类鞋面的具有重叠的或至少部分地共同延伸的层的编织部件的另外的实例可以在Dua等人的美国专利申请公布2008/0110048中找到,该专利申请公布通过引用并入本文。

[0028] 管42沿着外侧面14和内侧面15向上延伸。每个管42邻近至少一个另外的管42以形成管对(tube pair)。一般来说,股状物43中的一根穿过管对中的第一管42,从第一管42的上端向外延伸,形成鞋面30外层上的环44,延伸进入该管对中的第二管42的上端,并穿过第二管42。即,每根股状物43穿过至少两个管42,且股状物43的外露部分形成环44。

[0029] 单根股状物43可以只穿过两个相邻的管42(即,单个管对)使得股状物43形成单个环44。在此构造中,股状物43的端部离开两个相邻的管42的下端,并例如可以在士多宝鞋内衬底34下方固定到鞋底结构20以防止端部部分从管42中的一个管中被拉出。在另一个构造中,单根股状物43可以穿过每个管42,由此穿过多个管对并形成多个环44。在另一个构造中,一根股状物43可以穿过位于外侧面14上的每个管42,而另一根股状物43可以穿过位于内侧面15上的每个管42。因此,一般来说,单根股状物43穿过至少一个管对以形成至少一个环44,但可以穿过多个管对以形成多个环44。

[0030] 参考图1-4,鞋带32延伸穿过每个环44并还穿过在编织部件40中邻近每个环44形成的多个孔41。鞋带32、孔41(鞋带32延伸穿过该孔)、外侧面14和内侧面15上的各个管42、股状物43和环44的组合为鞋面30提供有效的鞋带系统。当拉紧鞋带32时(即,当穿用者系鞋带32时),拉力还可以被引入到股状物43中。在没有股状物43的情况下,编织部件40的其它部分将承受拉力和系鞋带32产生的应力。然而,股状物43的存在提供了承受拉力和应力的单独的元件。此外,编织部件40的大部分通常可以通过选择编织类型和纱线类型来形成以便在拉紧时伸展,由此允许鞋面30与足部的轮廓相符合。然而,与鞋面30相比,股状物43通常可以是非伸展性的。

[0031] 股状物43可以由各种材料形成,且可以具有例如绳、线、带状物、缆绳、纱线、细丝或链的构造。在一些构造中,在形成编织部件40的编织过程中股状物位于管42内。就这点而论,股状物43可以由可在形成编织部件40的编织机或其它设备中使用的任何常规的一维材料形成。如关于本发明所使用的,术语“一维材料”或其变体旨在涵盖呈现出远远大于宽度和厚度的长度的常规的长形材料。相应地,用于股状物43的合适材料包括各种细丝、纤维和纱线,其由人造丝、尼龙、聚酯、聚丙烯酸(polyacrylic)、蚕丝、棉、碳、玻璃、芳族聚酰胺(例如,对位芳族聚酰胺纤维和间位芳族聚酰胺纤维)、超高分子量聚乙烯、以及液

晶聚合物形成。除了细丝和纱线之外,其它一维材料可以用于股状物 43。虽然一维材料经常将具有宽度和厚度基本上相等的横截面(例如,圆形或正方形横截面),但是某些一维材料可以具有稍微大于厚度的宽度(例如,矩形、椭圆形、或其它长形的横截面)。如果材料的长度远远大于材料的宽度和厚度,那么尽管有较大的宽度,也可以认为材料是一维的。

[0032] 由编织部件 40 形成的另一种结构是至少部分地围绕脚踝开口 31 延伸的装填垫料的鞋领 (padded collar) 45。参考图 1-3,鞋领 45 显示出比编织部件 40 的许多其它部分更大的厚度。一般说来,鞋领 45 由两个重叠且至少部分地共同延伸的编织材料层(即,管状结构)和在所述层之间延伸的多根浮纱 46 形成,如图 5D 中所描述的。虽然形成鞋领 45 的编织材料的一层的侧面或边缘可以固定到编织材料的另一层,但是中间区域通常是未固定的。就这点而论,编织材料层有效地形成类似管 42 的管或管状结构,且浮纱 46 可以位于或放置于编织材料的两层之间以穿过管。即,浮纱 46 在编织材料层之间延伸,通常平行于编织材料的表面,而且还穿过并填充所述层之间的内部容积。然而,编织部件 40 的大部分是由被机械操纵以形成编织部件的纱线形成的,浮纱 46 通常是自由的或另外放置于形成鞋领 45 的外层的编织材料层之间的内部容积中。

[0033] 然而,管 42 包括单根股状物 43,鞋领 45 包括延伸穿过编织材料层之间的区域的多根浮纱 46。相应地,编织部件 40 可以形成常规的管状结构,其在所述管状结构内具有一根或多根纱线。此外,浮纱 46 可以由各种材料形成且可以在形成编织部件 40 的编织过程中放置在鞋领 45 中。就这点而论,浮纱 46 可以由可在形成编织部件 40 的编织机或其他设备中使用的任何常规的一维材料来形成。

[0034] 浮纱 46 的存在为鞋领 45 赋予了可压缩的方面,由此增强了脚踝开口 31 的区域中的鞋类 10 舒适度。许多常规的鞋类物品将聚合物泡沫元件或其它可压缩材料结合到鞋领区域中。与常规的鞋类物品不同,鞋领 45 使用浮纱 46 来提供可压缩结构。

[0035] 管 42 和股状物 43 的组合为鞋面 30 提供了例如在鞋带系统中抗伸展的结构元件。类似地,鞋领 45 和浮纱 46 的组合为鞋面 30 提供了例如压缩以赋予围绕脚踝开口 31 的更大舒适度的结构元件。虽然这些编织结构为鞋面 30 提供了不同的益处,但这些编织结构在以下方面是类似的:每个包括:(a) 管状结构,其是由整体编织构造所形成的两个重叠的且至少部分地共同延伸的编织材料层形成,以及 (b) 至少一根纱线、股状物或其它一维材料,其放置于或以其他方式位于管状结构中并延伸穿过一定长度的所述管状结构的至少一部分。

[0036] 平编织工艺

[0037] 可以使用平编织工艺来制造编织部件 40。平编织是制备编织材料的方法,该编织材料被周期性地转向(即,从交替的侧面编织所述材料)。材料的两个侧面(另外称为面)通常命名为正面(即,面向外、朝向观察者的侧面)和反面(即,面向内、背离观察者的侧面)。虽然平编织提供了形成编织部件 40 的合适的方法,但其它编织工艺也可以使用,这取决于结合到编织部件 40 中的特征。可以使用的其它编织工艺的示例包括宽管圆筒型编织 (wide tube circular knitting)、窄管提花圆筒型编织 (narrow tube circular knit jacquard)、单面提花圆筒型编织 (single knit circular knit jacquard)、双面提花圆筒型编织、特里柯型经编 (warp knit tricot)、拉舍尔型经编 (warp knit raschel)、以及双针床拉舍尔经编 (double needle bar raschel)。

[0038] 使用平编织工艺来制造编织部件 40 的一个优势是通过平编织工艺可以将上述特

征的每一个赋予到编织部件 40。即,平编织工艺可以形成编织部件 40 以具有例如 (a) 为鞋面 30 的不同区域赋予不同特性的各种编织类型, (b) 为鞋面 30 的不同区域赋予不同特性的各种纱线类型, (c) 在管 42 中具有重叠的编织层的构造的编织部件, (d) 放置于管 42 中的诸如股状物 43 的材料, (e) 在鞋领 45 中具有重叠的编织层的构造的编织部件, 以及 (f) 在鞋领 45 中的编织材料层之间的浮纱。此外, 这些特征中的每一个以及其它特征可以通过单一的平编织工艺结合到编织部件 40 中。就这点而论, 可以使用平编织工艺来基本上形成鞋面 30 以具有对鞋类 10 有利的各种特性和结构特征。

[0039] 虽然可以由单个个体机械地操纵一根或多根纱线以形成编织部件 40 (即, 可以通过手来形成编织部件 40), 但横机可以提供形成相对大量的编织部件 40 的有效方式。还可以使用横机来改变编织部件 40 的尺寸以形成适于具有基于足部的长度和宽度中的一个或两个的不同尺寸的鞋类的鞋面 30。此外, 可以使用横机来改变编织部件 40 的构造以形成适于左脚和右脚的鞋面 30。还可以改变编织部件 40 的各个方面来提供对于个体的量身定做。相应地, 使用机械的横机可以提供形成具有不同尺寸和构造的多个编织部件 40 的有效方式。

[0040] 编织部件 40 结合了由整体编织构造形成的许多特征和结构。一般来说, 当特征和结构通过平编织工艺、而不是在平编织工艺之后所进行的其它工艺 (例如, 缝合、粘合、成形) 被结合到编织部件 40 中时, 该特征和结构由整体编织构造形成。作为一个示例, 管 42 和鞋领 45 的部分是由重叠的且至少部分地共同延伸的编织材料层形成的, 且一层的侧面或边缘可以固定到另一层。编织材料的两个层通常是在平编织工艺过程中形成的且不包括补充的缝合、粘合或成形工艺。因此, 重叠的层是经过平编织工艺由整体编织构造形成的。作为另一个示例, 从编织类型形成的编织部件 40 的限定孔 41 的区域是经过平编织工艺由整体编织构造形成的。作为另一个示例, 浮纱 46 是由整体编织构造形成的。

[0041] 使用平编织工艺形成编织部件 40 的进一步的优势是可以将三维外观 (aspect) 结合到鞋面 30 中。鞋面 30 具有围绕足部延伸并符合足部形状的曲线的或其它的三维结构。例如, 平编织工艺可以形成具有某种曲率的编织部件 40 的区域以便补充足部的形状。用于鞋类鞋面的具有三维外观的编织部件的示例可以在 Dua 等人的美国专利申请公布 2008/0110048 中找到, 该专利申请公布通过引用并入本文。

[0042] 在图 6 中, 将编织部件 40 从鞋类 10 中分离出来并遵照平编织工艺来描述。虽然许多织物材料的边缘被切割而显露出形成织物材料的纱线的端部, 但是编织部件 40 可以形成具有经修整的构造 (finished configuration)。即, 可以使用平编织或其它编织技术来形成编织部件 40, 使得编织部件 40 内的纱线的端部基本上不存在于编织部件 40 的边缘处。通过平编织形成的经修整的构造的一个优势是形成编织部件 40 的边缘的纱线不太可能拆散, 这是纬编材料所固有的问题。通过形成经修整的边缘, 编织部件 40 的整体性被加强, 且需要很少的后处理步骤或不需要后处理步骤来防止拆散。此外, 松散的纱线也不太可能妨碍鞋面 30 的美学外观。换言之, 当增加制造效率时, 编织部件 40 的经修整的构造可以增强鞋面 20 的耐久性和美学质量。

[0043] 编织部件 40 提供适于鞋类 10 的鞋面 30 的构造的一个示例。例如, 根据鞋类物品的预期用途、鞋类物品的所期望的特性、以及鞋类物品的有利的结构属性, 可以通过平编织形成类似于编织部件 40 的编织部件以具有所期望的特征。即, 可以使用平编织来 (a) 在所

期望的编织部件的区域中设置特定编织类型, (b) 在所期望的编织部件的区域中设置特定纱线类型, (c) 在所期望的编织部件的区域中形成类似于管 42 和鞋领 45 的重叠的编织层, (d) 在编织层之间放置类似于股状物 43 和浮纱 46 的股状物或浮纱, (e) 在编织部件中形成三维外观, 以及 (f) 赋予经修整的边缘。更具体地, 例如, 任何上述特征可以在编织部件内混合和匹配以形成鞋类鞋面的特定的特性或结构属性。

[0044] 进一步的构造

[0045] 上述鞋面 30 的特征提供用于鞋类 10 的合适构造的一个示例。也可以使用许多其它构造。作为一个示例, 在鞋类 10 的某些构造中的编织部件 40 中可以不存在上述特征中的一些。参考图 7A, 编织部件 40 中不存在鞋领 45, 使得单个编织材料层形成围绕脚踝开口 31 延伸的区域。类似地, 图 7B 中不存在管 42 和股状物 43。例如, 通过仅使用有益于特定体育运动的结构或特征, 鞋类 10 可以具有仅仅带有必要的或有利的元件的最小构造。

[0046] 如上所述, 由于在鞋面 30 的不同区域中使用不同的编织类型或纱线类型, 那些区域可以具有不同特性。改变特定区域的特性的另一方式涉及熔合来自那些区域中的纱线的热塑性材料。即, 特定区域可以由结合热塑性聚合物材料的纱线形成。通过加热热塑性聚合物材料, 相邻的纱线、细丝或纤维可以在那些区域中彼此熔合以将编织环锁定在一起, 由此增加刚度或耐磨性。在一些构造中, 编织部件 40 的单个层 (例如, 管 42 或鞋领 45 的外层或内层) 或编织部件 40 中放置的纱线 (即, 股状物 43 或浮纱 46) 可以由结合热塑性聚合物材料的纱线形成。作为替代, 整个编织部件 40 也可以由结合热塑性聚合物材料的纱线形成, 且只有对应于熔合区 47 的部分可以被加热以改变特性。参考图 7C, 编织部件 40 包括两个熔合区 47。一个熔合区 47 在鞋跟区域 13 中且可以赋予更大的刚度以便为鞋类 10 有效地提供足跟稳定器。具有熔合区的鞋类鞋面的实例可以在 Dua 的美国专利第 6, 910, 288 号中找到, 该专利通过引用并入本文。另一个熔合区 47 在鞋前部区域 11 中且可以为鞋前部区域赋予更大的耐磨性。还可以利用熔合来增强孔 41, 提供减小弯曲的区域, 或减小渗透性。

[0047] 虽然编织部件 40 的熔合区可以为这些区域赋予更大的刚度和耐磨性, 但另一种方法可以是增加特定区域中的编织密度。参考图 7D, 编织部件 40 包括两个致密区 48。一个致密区 48 在鞋跟区域 13 中且可以赋予更大的刚度以便为鞋类 10 有效地提供足跟稳定器。另一个致密区 48 在鞋前部区域 11 中且可以为鞋前部区域赋予更大的耐磨性。与形成熔合区 47 一样, 形成更致密的编织物 (denser knit) 也可以用来增强孔 41, 提供减小弯曲的区域, 或减小渗透性。

[0048] 编织部件 40 形成鞋面 30 的内表面和相对的外表面。在鞋类 10 的一些构造中, 可以将其它元件与编织部件 40 结合使用, 且其它元件可以形成内表面或外表面中的一个的一部分或全部。参考图 7E, 足跟稳定器 35 在鞋跟区域 13 中固定到编织部件 40, 且可以由相对刚性的聚合物材料形成。可以使用粘结工艺来将足跟稳定器 35 连接到编织部件 40。在其它构造中, 衬里可以在内表面上延伸, 由此形成鞋面 30 内空腔的一部分。其它材料可以熔接、粘附、或结合到外表面上以保护编织部件 40 的编织结构或为鞋类 10 提供其它益处。

[0049] 管 42 在图 2 和图 3 中被描述成紧邻至少一个其他的管 42。然而, 管 42 的相对位置可以显著改变。参考图 7F, 管 42 相互分开并形成 V 形结构。虽然可以使用管 42 作为鞋带系统的一部分, 但也可以使用管 42 或类似结构来赋予纵向抗伸展性。参考图 7G, 管 42 纵

向延伸,而管 42 内的股状物 43 可以对抗贯穿区域 11-13 中的每个区域的伸展。

[0050] 纱线 46 结合到鞋领 45 中的方式可以显著改变。在上述构造中,当通过管状结构时,浮纱 46 通常平行于形成鞋领 45 的编织材料层。参考图 8A,纱线 46 从一个编织材料层延伸至另一个编织材料层并通常垂直于层,由此赋予类似于在平编织过程中形成的间隔编织材料 (spacer-knit material) 的结构。如在图 8A 的放大区域中所描述的,纱线 46 可以围绕形成编织层的纱线延伸。在一个构造中,纱线 46 可以是与形成编织层相同的纱线。即,纱线 46 可以是形成编织层的纱线的拆散部分。在另一个构造中,纱线 46 可以是未固定的或以其它方式与形成编织层的纱线分开的 (即,不围绕形成编织层的纱线延伸)。相应地,纱线 46 可以以各种方式结合到编织部件 40 中。作为进一步的情况,鞋面 30 的某些构造可以包括聚合物泡沫材料,所述聚合物泡沫材料在制造编织部件 40 之后放置在编织材料层之间。

[0051] 如上所述,鞋领 45 可以具有类似于间隔编织材料的结构,其中纱线 46 从一个编织材料层延伸至另一编织材料层且以通常垂直于层的方向延伸。虽然鞋领 45 是具有此结构的合适区域,但可以使用平编织工艺来为编织部件 40 的任何区域赋予间隔编织材料的结构。例如,间隔编织构造可以安置于鞋前部区域 11 或鞋中部区域 12 中的侧面 14 和 15 中任一个,以便为鞋面 20 赋予缓冲或可压缩方面。士多宝鞋内衬底 23 或鞋舌 33 的部分也可以通过平编织工艺来形成以具有间隔编织构造。此外,各种纱线类型可以用于具有间隔编织构造的编织部件 40 的区域,包括单丝纱或变形纱 (textured yarn)。

[0052] 在上述各种构造中,鞋垫 23 是位于鞋面 20 中的空腔内的独立元件,而士多宝鞋内衬底 34 是与编织部件 40 的边缘连接的独立元件。也可以使用平编织工艺来形成整体编织构造的鞋垫 23 和士多宝鞋内衬底 34,如图 8B 中所描述的。与鞋领 45 一样,可以形成整体编织构造的鞋垫 23 以包括赋予可压缩构造的浮纱。还可以使用平编织工艺来形成整体编织构造的其它元件,例如鞋舌 33。

[0053] 制造效率

[0054] 如在上面背景部分所讨论的,例如,运动鞋类的鞋面可以由多个材料元件形成,每个材料元件为鞋类的不同区域赋予不同的特性。为了制造常规的鞋面,将材料元件切割成所期望的形状并随后连接在一起,通常使用缝合或粘性结合。当结合到鞋面中的材料元件的数量和类型增加时,与输送、储存、切割和连接材料元件相关联的时间和费用也可能增加。随着结合到鞋面中的材料元件的数量和类型增加,来自切割和缝合过程的废料也积累至较大的程度。此外,具有较大量的材料、材料元件和其它部件的鞋类可能比由少量元件和材料形成的鞋面更难再利用。因此,通过减少鞋面中使用的元件和材料的数量,可以减少浪费同时提高制造效率和可再利用性。

[0055] 虽然常规的鞋面需要涉及很多材料元件的多个制造步骤,但是编织部件 40 可以通过单一的平编织工艺形成。在该平编织工艺之后,需要相对少的步骤数来将编织部件 40 结合到鞋类 10 中。更具体地,将士多宝鞋内衬底 34 连接到编织部件 40 的边缘,连接鞋跟区域 13 中的两个边缘,结合鞋带 32,以及将基本上完整的鞋面 30 与鞋底结构 20 固定。与常规制造工艺相比,使用编织部件 40 可以减少总的制造步骤数。此外,可以减少浪费同时增加可再利用性。

[0056] 在上面和附图中参考各种构造公开了本发明。然而,所公开内容的目的是提供关

于本发明的各种特征和概念的示例,并不限制本发明的范围。相关领域的技术人员将认识到可以对上述构造做出许多改变和变更而不背离本发明的如所附权利要求限定的范围。

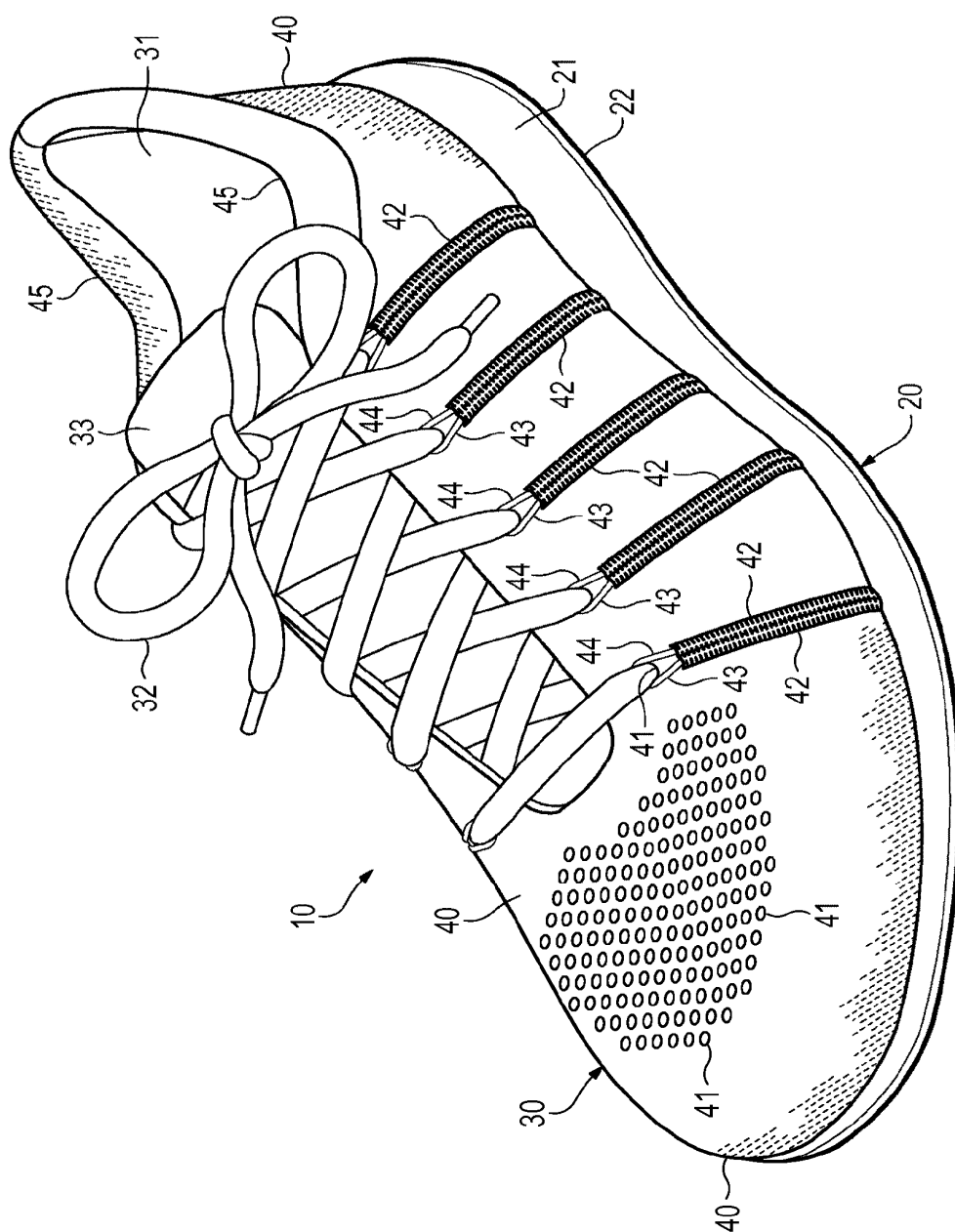


图 1

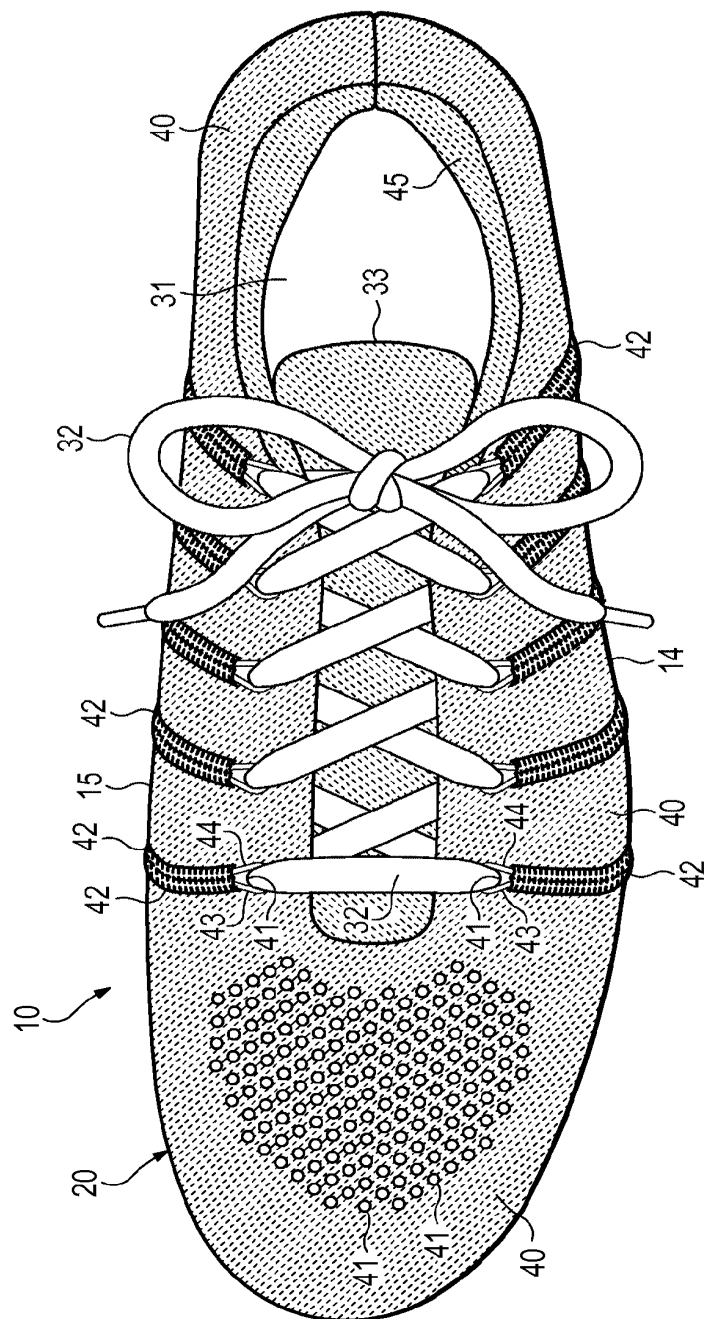


图 4

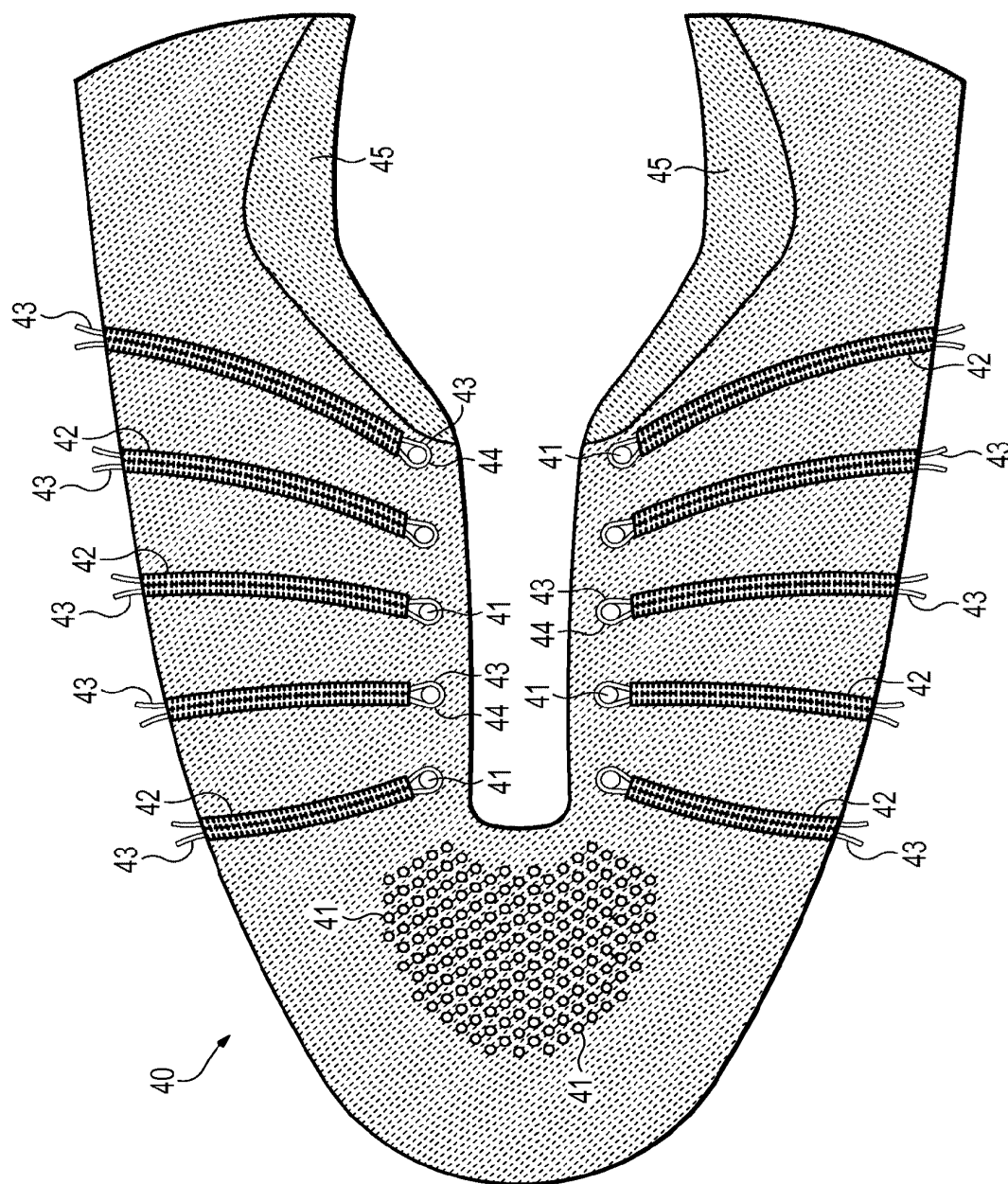


图 6

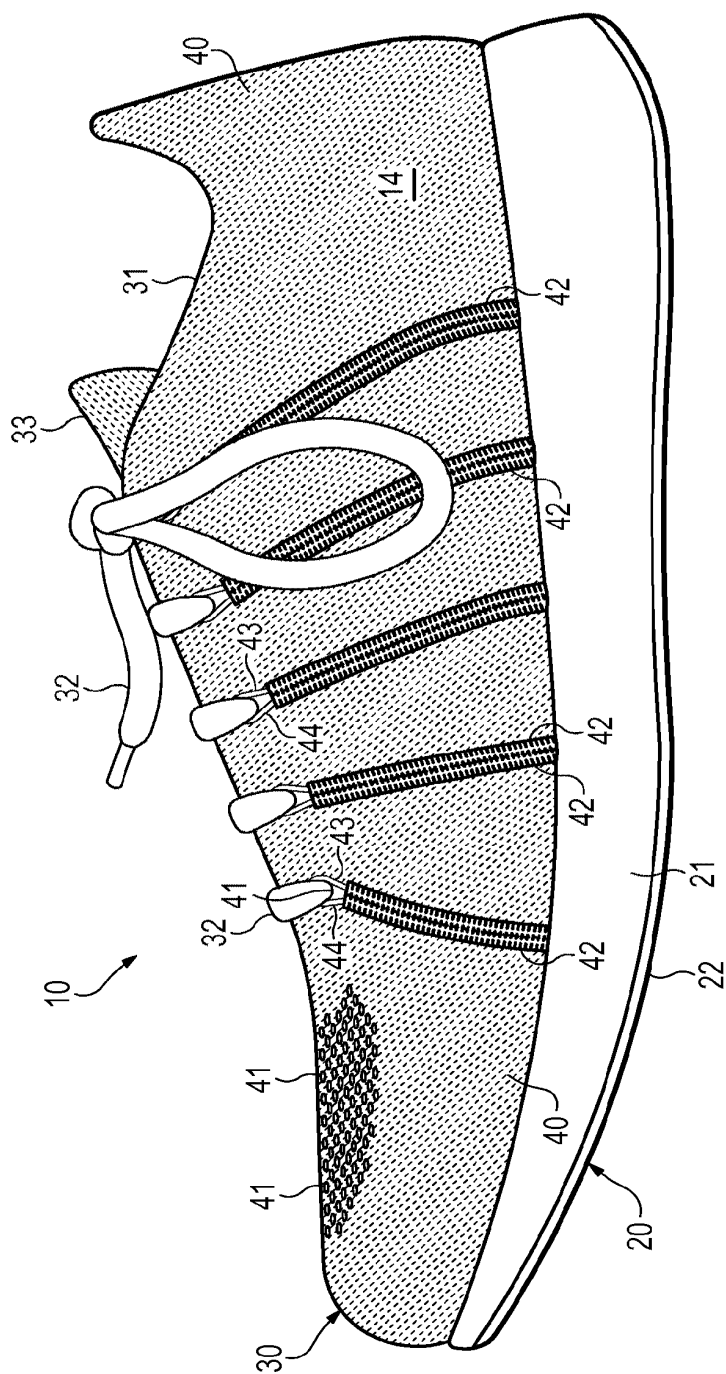


图 7A

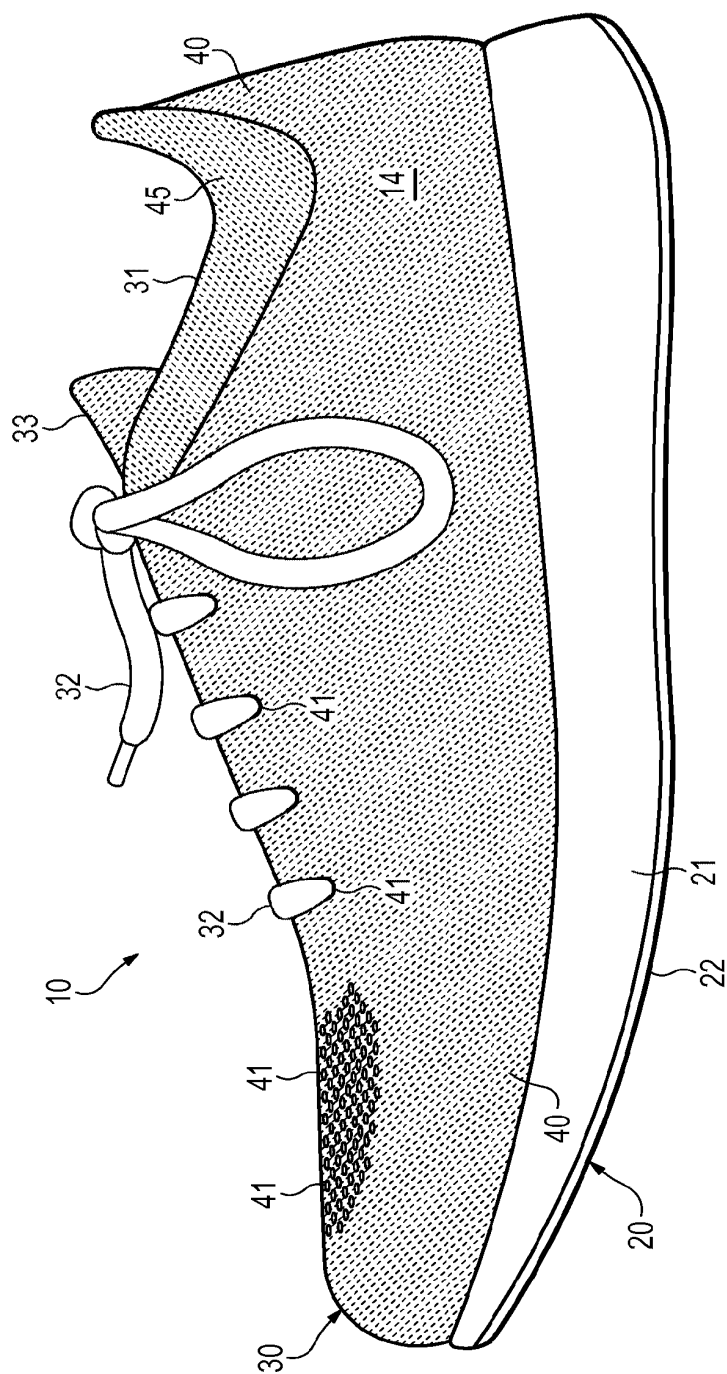


图 7B

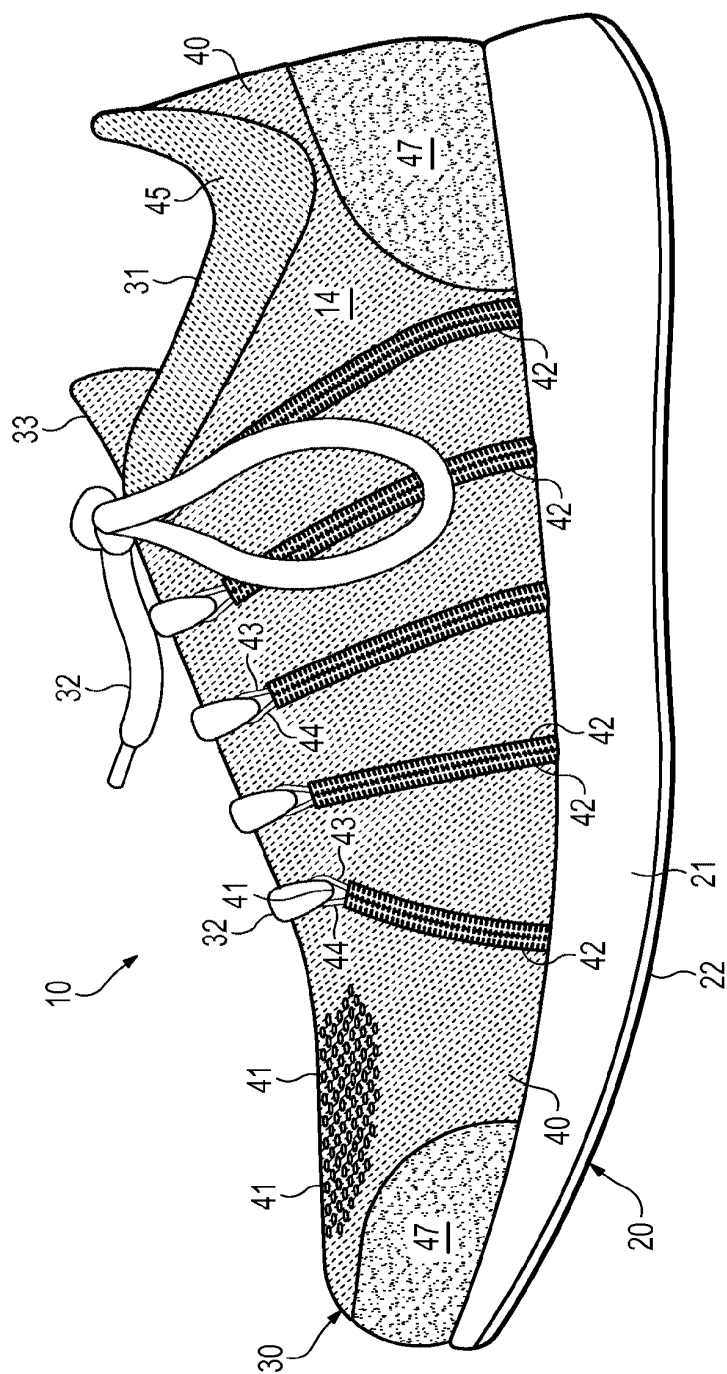


图 7C

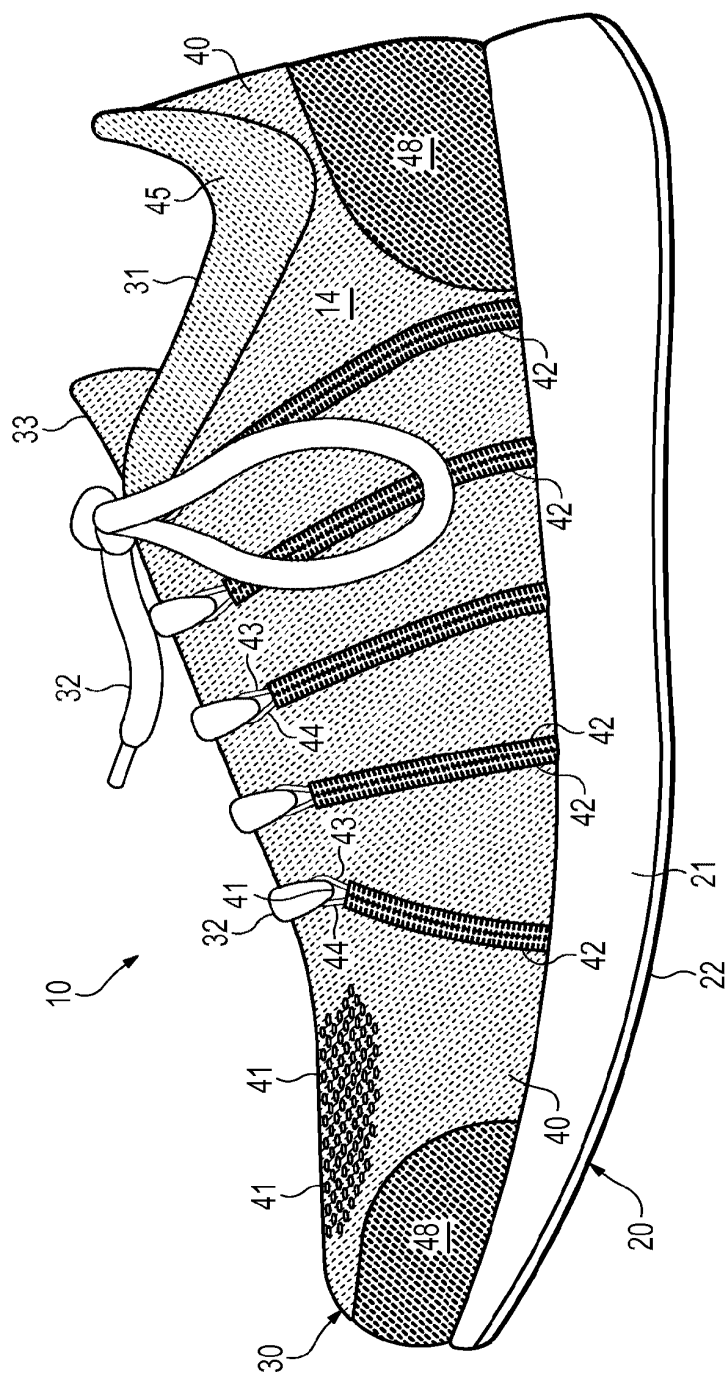


图 7D

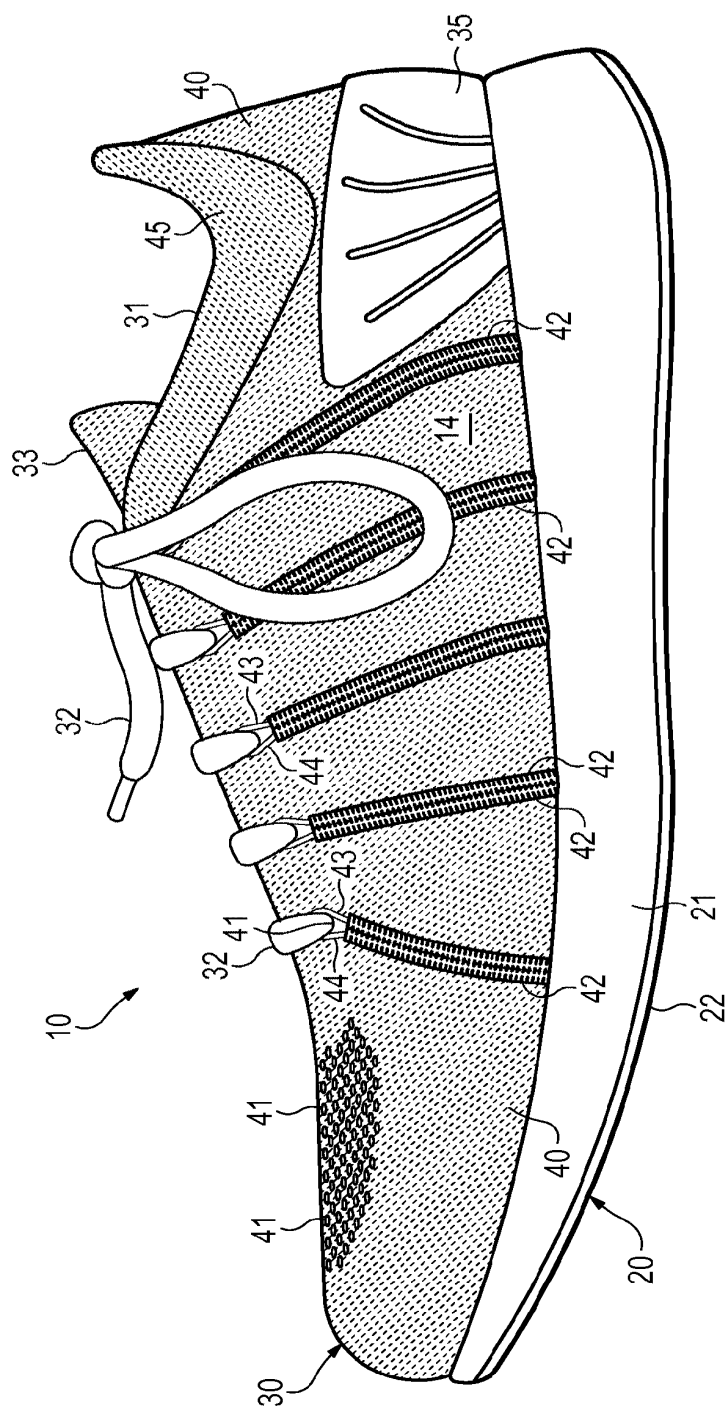


图 7E

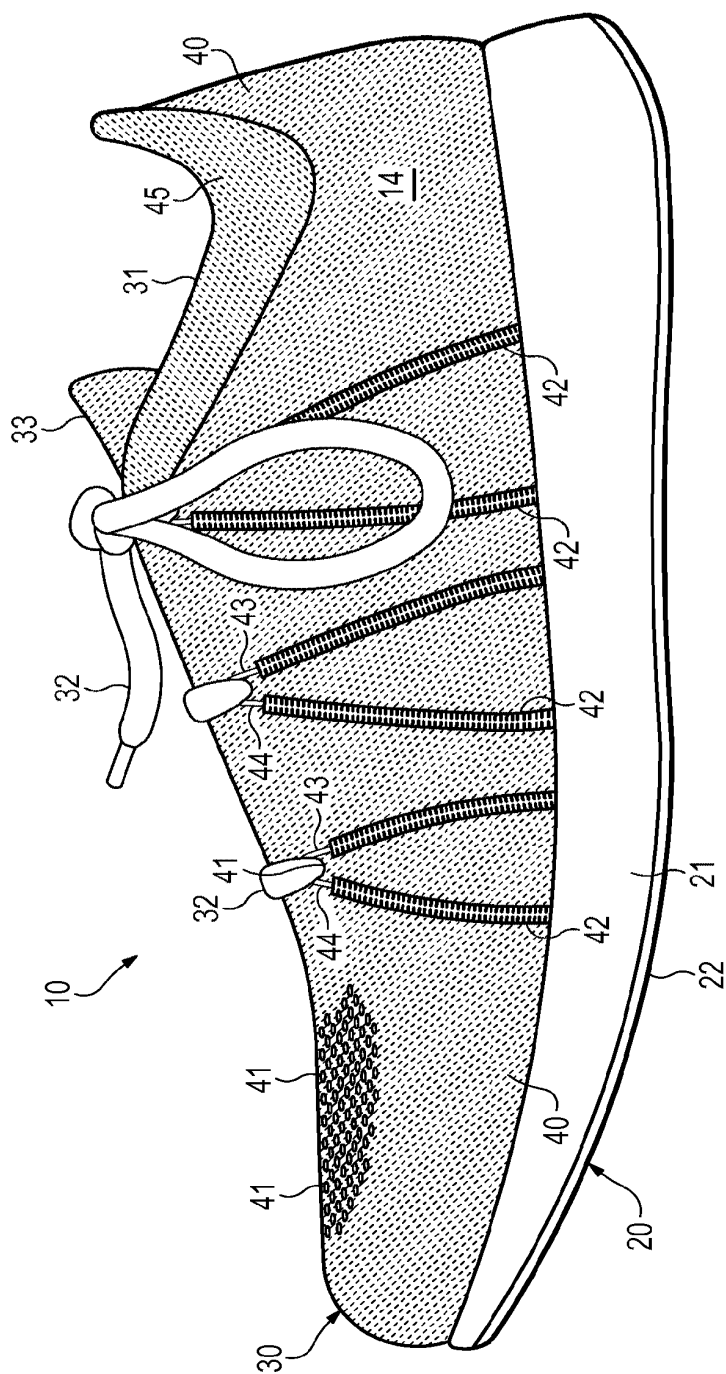


图 7F

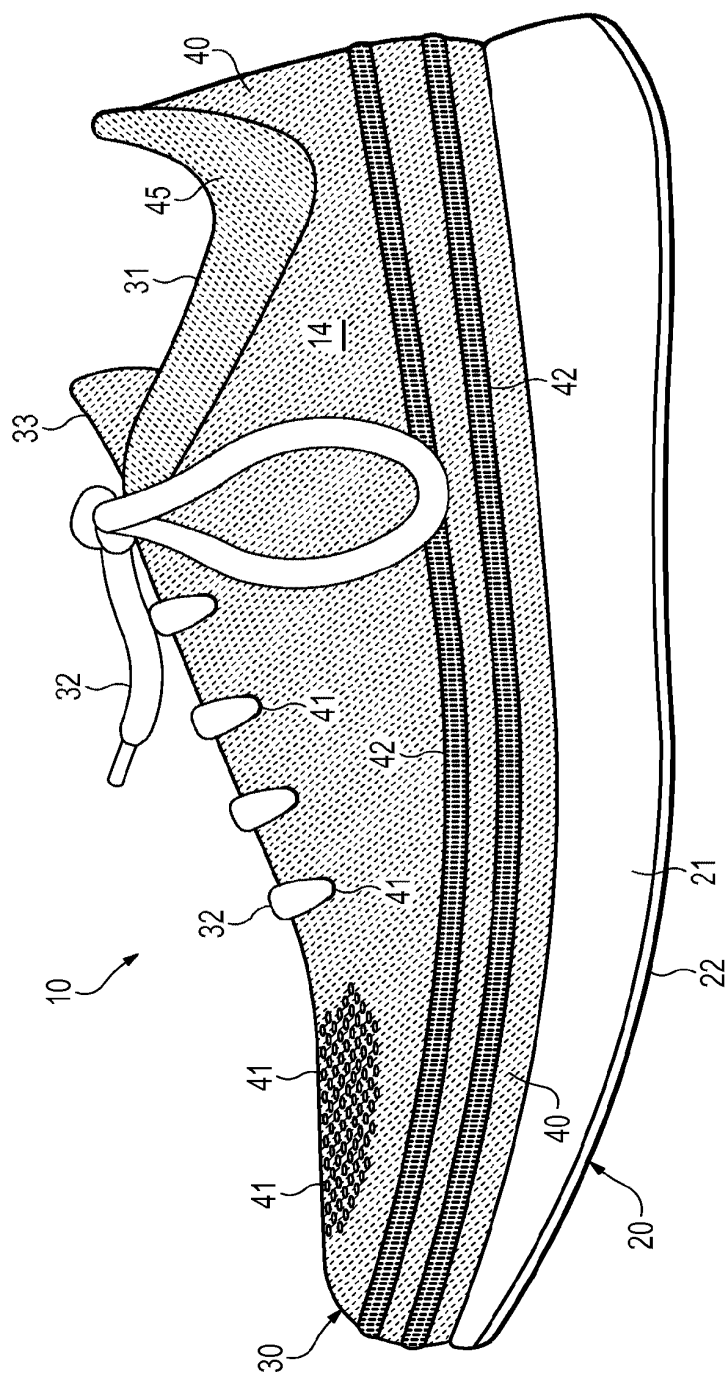


图 7G

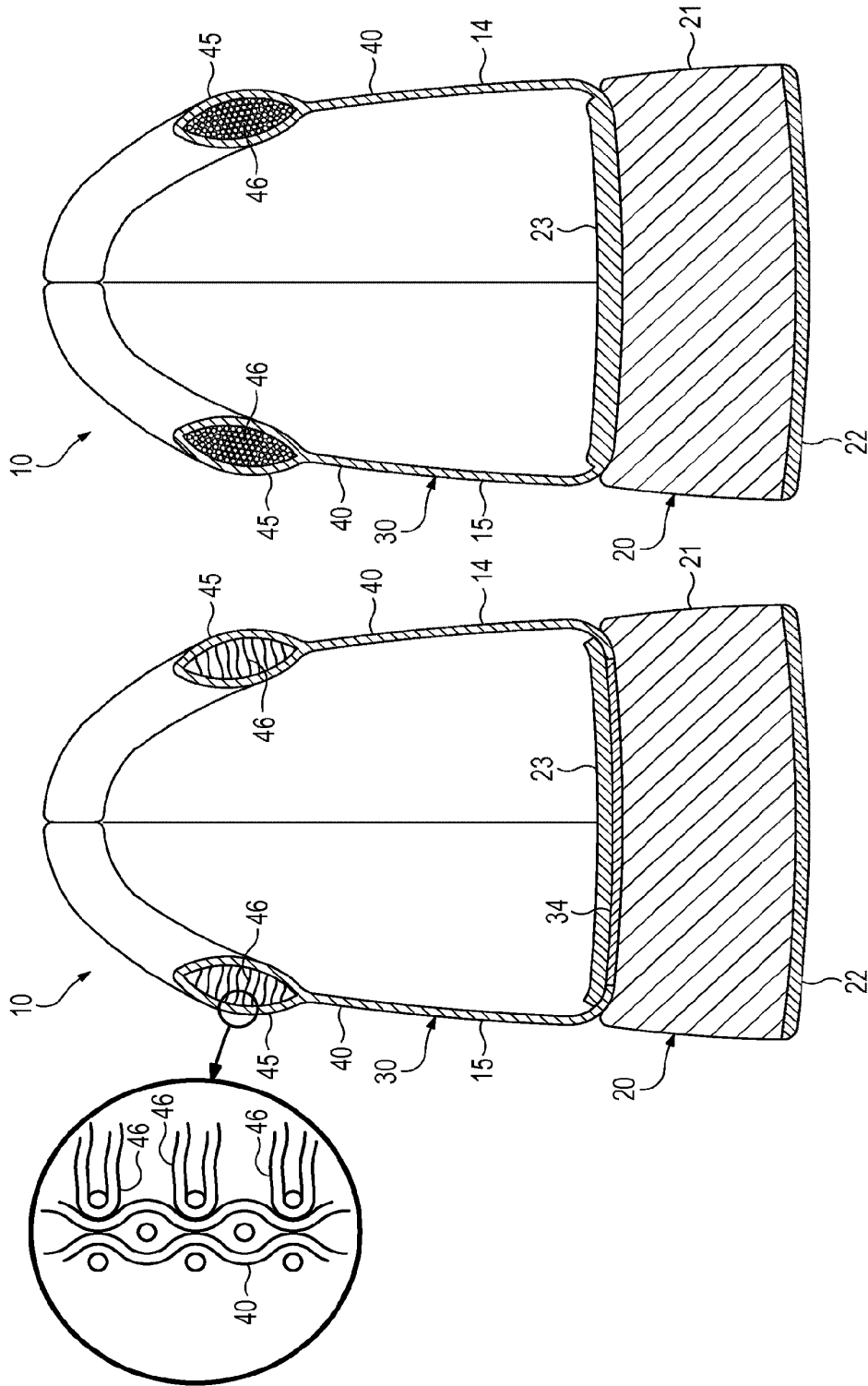


图 8B

图 8A

OFFICE ACTION OF THE INTELLECTUAL PROPERTY OFFICE

(Translation)

Issuance Date: 14 November 2014

- I. Applicant: NIKE INNOVATE C.V.
- II. Attorney: C. V. Chen
Address: 7th Floor, No. 201, Tun Hua North Road, Taipei

SUMMARY:

After examination, the Intellectual Property Office (IPO) considers that ROC (Taiwan) Patent Application No. 102105769 has the defects indicated in EXPLANATION (A) below. The applicant is required to file a response in duplicate within three months from the day after receipt of the office action if any substantive counter-evidence or arguments are to be presented. If the applicant fails to act according to this office action by the deadline, the IPO will proceed with the examination based solely upon the materials on hand.

EXPLANATION:

(A) Upon examination, the IPO notes the following:

- (I) The subject application, entitled "ARTICLE OF FOOTWEAR INCORPORATING A KNITTED COMPONENT WITH A TONGUE," was examined based on the specification and drawings submitted by the applicant at the time of filing. The subject application has 21 claims. Claims 1, 11, 16 and 20 are independent claims and the rest are dependent claims.
- (II) Claims 20 and 21 violate Paragraph 2, Article 22 of the Patent Act in view of Citation 1.
- (1) Claim 20

Fig. 1 and lines 18-27, column 18-27 of the specification of Citation 1 disclose the following features:

providing a knitting pattern with a modifiable field;
(Remark: Fig. 1 of Citation 1 discloses knitting four different patterns.)

updating the modifiable field with data representing a first alphanumeric character;
(Remark: Lines 18-21, column 4 of the specification of Citation 1 disclose that the controller is a programmable digital microprocessor.)

knitting a first component with a knit structure of the first alphanumeric character;

(Remark: Please refer to the region of the first pattern in Fig. 1 (Fig. 1; element 14).)

Citation 1 further discloses that the double knit terry fabric with sculptural design is used to make knitted fabrics of different colors and styles by a knitting machine controlled by a controller. The controller can be programmed to produce complex, non-repeating knitted fabrics. The programs can be modified to change the styles of the knitted fabrics to produce a second component which is different from the first component.

Regarding the differences between Citation 1 and the subject application, Citation 1 uses a digital microprocessor that allows the programs to be modified to produce knitted fabrics of the same style. The subject application knits a second component with the second alphanumeric character by updating the modifiable field with a second alphanumeric character. Therefore, a person ordinarily skilled in the art can easily come up with the result of Claim 20 on the basis of the technical content of Citation 1 with minor modifications.

(2) Claim 21

Claim 21 specifies that the second alphanumeric character is sequential from the first alphanumeric character.

Lines 18-27, column 4 of the specification of Citation 1 disclose that the controller is a programmable digital microprocessor. Therefore, Citation 1 discloses that the controller can be programmed. The microprocessor compiles the programs on the basis of the sequence of the programs. Therefore, a person ordinarily skilled in the art can easily come up with the result of Claim 21 on the basis of the technical content of Citation 1 with minor modifications.

(III) The title of the invention fails to briefly reflect the content of the invention to be claimed, so it violates Paragraph 4, Article 26 of the Patent Act and Paragraph 4, Article 17 of the Enforcement Rules of the same Act. Amendment to the title should be effected.

(IV) The examiner has not found reasons against the patentability of Claims 1-19 at this time. The applicant will be further notified if any new reason for objection/rejection is found.

(V) Cited document:

Citation 1: US6321574B1

(B) If any amendments and/or corrections are to be made to the subject application, such amendments and/or corrections should be made according to the provisions of Article 43 and Paragraph 3 of Article 44 of the Patent Act and Articles 36-38 of the

Enforcement Rules of the Patent Act; the application form(s) should be completed according to the regulations for amending and/or correcting patent applications.

- (C) If the applicant wishes to appear before the IPO for a face-to-face demonstration or explanation, please explicitly indicate "Interview Requested" in the response and effect payment of a government fee of NT\$1,000. The time and place of the interview will be arranged if the IPO considers an interview necessary.
- (D) Attached is a search report of the subject application.

SEARCH REPORT
ROC (TAIWAN) PATENT APPLICATION NO. 102105769
(Translation)

1. FILING DATE: 19 February 2013		
2. PRIORITY DATE: 20 February 2012		
3. INTERNATIONAL PATENT CLASSIFICATION (IPC):		
4. TECHNICAL FIELDS SEARCHED (IPC):		
5. DATABASE SEARCHED (KEY WORDS):		
Category	Cited documents, indicating relevant passages (if applicable)	Relevant to Claim(s)
X	1. US6321574B1 2001/11/27 Lines 18-27, column 18-27 of the specification; Figs. 1-2	20-21
A	2. JP 2005-160697A 2005/06/23 The entire specification	1-21
A	3. CN1782156A 2006/06/07 The entire specification	1-21
A	4. CN102271548A 2011/12/07 The entire specification	1-21
CATEGORIES OF CITED DOCUMENTS X: document of particular relevance, indicating lack of novelty or inventive step when taken alone A: document indicating technological background and/or state of the art P: document published on or after the declared priority date but before the filing date of this application Y: document of particular relevance, indicating lack of inventive step when combined with one or more other documents of the same category D: document cited in the specification E: patent document published on or after, but with priority date earlier than, the filing date of this application L: document cited for other reasons O: document referring to a public use, sale or exhibition		

DATE OF COMPLETION OF SEARCH: 10 November 2014

正本

檔 號
保存年限

經濟部智慧財產局 審查意見通知函

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受文者：耐克創新有限合夥公司（代
理人：陳長文 專利代理
人）

裝

發文日期：中華民國103年11月14日
（103）智專一（六）05055字第
發文字號：10321585250號 
速 別：*1032158525001*
密等及解密條件或保密期限：
附 件：如文

訂

主旨：第102105769號專利申請案經審查後認有如說明一所述情
事，台端（貴公司）請於文到次日起3個月內提出申復
說明（一式2份）或修正至局。逾期未復者，本局將依現有
資料續行審查，請查照。

說明：

一、本案經審查認為：

線

（一）本案「包含具有鞋舌之編織組件的鞋具」，依申請
人申請時所提說明書、圖式進行審查，經查本案申
請專利範圍，其請求項共有21項，其中第1、11、
16、20項為獨立項，其餘為附屬項，合先敘明。

（二）依據引證1的揭示內容，本案請求項20~21不符合專
利法第22條第2項之規定。

1、本案請求項20，引證1圖式第1圖與說明書第4欄第
18~27行已揭露，「其包括：提供具有一可修改欄位





之一編織型樣[引證1如圖1所示，編織成四種不同造型]；用表示一第一文數字元[引證1說明書第4欄第18~21行之該控制器為可程式化之數位微處理器]之資料更新該可修改欄位；編織具有該第一文數字元之一編織結構之一第一組件[引證1第一圖紋之區塊(圖1，14)]」之技術內容。其中引證1揭露該雙面針織毛圈織物雕塑設計物係透過一控制器控制針織機做出不同顏色及造型之針織物，該控制器為可程式化，透過編輯程式化做出不重複且複雜之針織物，使用者可編輯程式去修改針織物的造型，做出不同於第一組件之第二組件，又引證1與本案之差異係引證1為使用數位微處理器做程式編輯做出同造型之針織物，本案為透過該第二文數字元更新該可修改欄位，編織出具有該第二文數字元之第二組件，該發明所屬技術領域中具有通常知識者，自可依引證1揭示技術內容簡單變化而輕易完成本請求項之發明。

2、本案請求項21，引證1說明書第4欄第18~27行已揭露，「其中該第二文數字元自該第一文數字元係順序的[引證1說明書第4欄第18~21行之該控制器為可程式化之數位微處理器]」之技術內容。其中引證1揭露該控制器為可程式化，而微處理器在編譯該程式時乃為編寫程式之順序去編輯，該發明所屬技術領域中具有通常知識者，自可依引證1揭示技術內容簡單變化而輕易完成本請求項之發明。

(三)本案發明名稱，應簡明表示所申請發明之內容，不符專利法第26條第4項及施行細則第17條第4項之規

定，應予修正。

(四)本案請求項1~19，於現在時點並未發現不予專利理由，如有發現新的不予專利理由時，會再予通知不予專利理由。

(五)引證文件：

1、US 6321574B1。

二、本案如有修正、訂正，應依專利法第43條、第44條第3項、專利法施行細則第36條至第38條之規定辦理，並請依專利修正申請書、專利誤譯訂正申請書之規定撰寫。

三、若希望來局當面示範或說明，請於申復說明書內註明「申請面詢」並繳交規費新臺幣1千元正，本局認為有必要時，將另行通知面詢地點及時間。

四、檢送本案檢索報告1份。

正本：耐克創新有限合夥公司（代理人：陳長文 專利代理人）

副本：

經濟部智慧財產局

第102105769號專利申請案檢索報告

1. 申請日：102年2月19日		
2. 優先權日：2012年2月20日		
3. 本案國際專利分類號(IPC)：A43B23/02 (2006.01) , A43B23/26 (2006.01)		
4. 檢索國際專利分類號(IPC)範圍：A43B;D04B		
5. 檢索使用資料庫名稱(關鍵詞)： TIPO 國內外專利資料庫，EPO，JPO，大陸專利資訊檢索系統，其他		
關聯性代碼	引用文獻資料與相關段落處	相關聯請求項
X	1. US 6321574 B1 2001/11/27 說明書第4欄第18~27行及圖式1、2	20~21
A	2. JP 2005-160697 A 2005/06/23 全文	1~21
A	3. CN 1782156 A 2006/06/07 全文	1~21
A	4. CN 102271548 A 2011/12/07 全文	1~21
關聯性代碼說明： X：單獨引用即足以否定發明新穎性或進步性之特別相關的文獻。 Y：結合一或多篇其他文獻後足以否定發明進步性之特別相關的文獻。 A：一般技術水準之參考文獻。 D：說明書已記載之文獻。 B：申請在前、公開／公告在後之專利文獻。 O：公開使用、販賣或展覽陳列之文件。 P：申請日與優先權日間公開之文獻。 L：其他理由引用之文獻。		

完成日：103年11月10日

Electronic Acknowledgement Receipt

EFS ID:	20836193
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	57618
Filer:	Eric M. Gibson/Jose Espejo
Filer Authorized By:	Eric M. Gibson
Attorney Docket Number:	51-3238
Receipt Date:	02-DEC-2014
Filing Date:	28-FEB-2013
Time Stamp:	09:38:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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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)	2014-12-02_51-3238_IDS.pdf	28985 3b32193fc39bbe15cd9dbc710b2f407e3d1a2742	no	3

Warnings:

Information:

This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	2014-12-02_51-3238_IDS_1_JP 2005160697A.pdf	551224 d51eb28bf7e7071f051aa1359e99b532c8969133	no	12
Warnings:					
Information:					
3	Foreign Reference	2014-12-02_51-3238_IDS_2_C N1782156A.pdf	1180179 2427a3917d38d58284699df8c9bd2ed3a488f977	no	26
Warnings:					
Information:					
4	Foreign Reference	2014-12-02_51-3238_IDS_3_C N102271548A.pdf	2072954 21827a7250fe402e60267e8893babb886f39256e	no	30
Warnings:					
Information:					
5	Non Patent Literature	2014-12-02_51-3238_IDS_4_T W_OA.pdf	441728 fed2669f4057f179cb5c316ff5810cb1d78d75a3	no	8
Warnings:					
Information:					
Total Files Size (in bytes):			4275070		
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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Appln. No. : 13/781,551 Confirmation No. 8567
Applicant : Adrian Meir
Filed : 2/28/2013
Title : Method Of Knitting A Knitted Component With An
Integral Knit Tongue
TC/A.U. : 3765
Examiner : Larry D. Worrell, Jr.
Attorney Docket No.: 51-3238
Customer No. : 57618

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

AMENDMENT

In response to the Office Action of September 16, 2014 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/Arguments begin on page 12 of this paper.

Amendments to the Claims

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

1. (currently amended) A method of manufacturing a knitted component for an article of footwear, the method comprising:
knitting a portion of the knitted component defining an upper with a knitting machine, the upper including a portion of at least one of an exterior surface of the knitted component and an opposite interior surface of the knitted component; and
knitting an integral knit tongue that is of unitary knit construction with the upper with the knitting machine, the integral knit tongue extending through a throat area of the knitted component; and
wherein the integral knit tongue is joined by knitting with the knitting machine to: (1) a forward portion of the throat area, and (2) at least along a portion of both of a lateral side and a medial side of the throat area of the knitted component extending through a portion of a length of the throat area in a longitudinal direction from the forward portion to an ankle opening of the upper.
2. (original) The method recited in claim 1, further including a step of selecting the knitting machine to be a flat knitting machine.

3. (original) The method recited in claim 1, wherein the step of knitting the integral knit tongue includes forming a course of the integral knit tongue to include at least one common yarn with the upper.

4. (original) The method recited in claim 1, wherein the step of joining the integral knit tongue by knitting includes forming a course with the knitting machine that joins the integral knit tongue to the upper.

5. (currently amended) The method recited in claim 1, wherein the integral knit tongue comprises a partially integral portion and a free portion, the method further comprising:

knitting the partially integral portion with the knitting machine of unitary knit construction with the upper at the forward portion of the throat area and at least along the portion of both of the lateral side and the medial side of the throat area of the knitted component extending through the portion of the length of the throat area in the longitudinal direction; and

knitting the free portion with the knitting machines of unitary knit construction with the partially integral portion at a rearward portion of the integral knit tongue and remaining unattached to the remaining portions of the knitted component.

6. (original) The method recited in claim 5, wherein the step of knitting the free portion further comprises:

- knitting the free portion of the integral knit tongue with the knitting machine;
- holding the free portion on needles of the knitting machine;
- knitting a first portion of the upper with the knitting machine while the free portion is held on the needles, the first portion of the upper including at least the rearward portion of the integral knit tongue;
- joining the free portion to the integral knit tongue at the rearward portion; and
- knitting a second portion of the upper with the knitting machine.

7. (original) The method recited in claim 6, wherein the step of knitting the first portion further comprises holding the free portion stationary with respect to a needle bed of the knitting machine during knitting of the first portion of the upper, and the first portion of the upper moving with respect to the free portion during knitting of the first portion of the upper;

wherein the step of joining the free portion includes forming a course with the knitting machine that joins the free portion to the integral knit tongue; and

wherein the step of knitting the second portion further comprises moving the free portion and the upper together during knitting of the second portion of the upper.

8. (currently amended) A method of manufacturing a knitted component for an article of footwear, the method comprising:

knitting a first portion of the knitted component defining an upper with a first feeder of a knitting machine, the upper including a portion of at least one of an exterior surface of the knitted component and an opposite interior surface of the knitted component;

knitting a second portion of the knitted component defining the upper with a second feeder of the knitting machine; and

knitting an integral knit tongue that is of unitary knit construction with the upper with at least one of the first feeder and the second feeder of the knitting machine, the integral knit tongue extending through a throat area of the knitted component; and

wherein the integral knit tongue is joined by knitting with the knitting machine to: (1) a forward portion of the throat area, and (2) at least along a portion of both of a lateral side and a medial side of the throat area of the knitted component extending through a portion of a length of the throat area in a longitudinal direction from the forward portion to an ankle opening of the upper.

9. (original) The method recited in claim 8, wherein the step of knitting the first portion further comprises:

knitting the exterior surface of the first portion of the upper with the first feeder;

knitting the opposite interior surface of the first portion of the upper with the first feeder; and

knitting at least a portion of the integral knit tongue with the first feeder.

10. (original) The method recited in claim 9, wherein the step of knitting the second portion further comprises:

knitting the exterior surface of the first portion of the upper with the second feeder;

knitting the opposite interior surface of the second portion of the upper with the second feeder; and

knitting at least a portion of the integral knit tongue with the second feeder.

11. (original) The method recited in claim 8, wherein the first portion of the upper is one of a medial side and a lateral side of the knitted component.

12. (original) The method recited in claim 8, wherein the step of knitting the integral knit tongue includes forming a course of the integral knit tongue to include at least one common yarn with the upper.

13. (original) The method recited in claim 12, further comprising forming at least one course of the first portion of the upper or the second portion of the upper with the knitting machine that is substantially continuous with at least one course of the integral knit tongue at the forward portion of the throat area of the upper.

14. (original) The method recited in claim 12, further comprising:
forming at least one course of the first portion of the upper that is substantially continuous with at least one course of the integral knit tongue along the lateral side of the throat area of the upper; and
forming at least one course of the second portion of the upper that is substantially continuous with at least one course of the integral knit tongue along the medial side of the throat area of the upper.

15. (original) The method recited in claim 8, wherein the integral knit tongue comprises a partially integral portion and a free portion, the method further comprising:

knitting the free portion of the integral knit tongue with at least one feeder of the knitting machine;

holding the free portion on needles of the knitting machine;

knitting the first portion of the upper with the first feeder of the knitting machine and knitting the second portion of the upper with the second feeder while the free portion is held on the needles, the first portion of the upper and the second portion of the upper including at least a rearward portion of the integral knit tongue;

joining the free portion to the integral knit tongue at the rearward portion; and

resuming knitting the first portion of the upper with the first feeder of the knitting machine and resuming knitting the second portion of the upper with the second feeder of the knitting machine.

16. (currently amended) A method of manufacturing a knitted component for an article of footwear, the method comprising:

knitting a first portion of the knitted component defining an upper with a first feeder of a knitting machine, the upper including a portion of at least one of an exterior surface of the knitted component and an opposite interior surface of the knitted component;

knitting a second portion of the knitted component defining the upper with a second feeder of the knitting machine; and

knitting an integral knit tongue that is of unitary knit construction with the upper with a third feeder of the knitting machine, the integral knit tongue extending through a throat area of the knitted component; and

wherein the integral knit tongue is joined by knitting with the knitting machine to: (1) a forward portion of the throat area, and (2) at least along a portion of both of a lateral side and a medial side of the throat area of the knitted component extending through a portion of a length of the throat area in a longitudinal direction from the forward portion to an ankle opening of the upper.

17. (original) The method recited in claim 16, wherein the upper comprises a first type of yarn; and

wherein the integral knit tongue comprises a second type of yarn, the second type of yarn being different from the first type of yarn.

18. (original) The method recited in claim 17, wherein the second type of yarn is an elastic yarn.

19. (original) The method recited in claim 16, wherein the step of knitting the integral knit tongue includes forming a course of the integral knit tongue to include at least one common yarn with the upper.

20. (original) The method recited in claim 19, further comprising forming at least one course of the first portion of the upper or the second portion of the upper with the knitting machine that is substantially continuous with at least one course of the integral knit tongue at the forward portion of the throat area of the upper.

21. (original) The method recited in claim 19, further comprising:
forming at least one course of the first portion of the upper that is substantially continuous with at least one course of the integral knit tongue along the lateral side of the throat area of the upper; and
forming at least one course of the second portion of the upper that is substantially continuous with at least one course of the integral knit tongue along the medial side of the throat area of the upper.

22. (original) The method recited in claim 16, wherein the step of knitting the first portion further comprises:
knitting the exterior surface of the first portion of the upper with the first feeder; and
knitting the opposite interior surface of the first portion of the upper with the first feeder.

23. (original) The method recited in claim 22, wherein the step of knitting the second portion further comprises:

knitting the exterior surface of the first portion of the upper with the second feeder;

knitting the opposite interior surface of the second portion of the upper with the second feeder.

REMARKS

This Amendment is submitted in response to the Office Action mailed on September 16, 2014. Claims 1, 5, 8, and 16 have been amended. Upon entry of this Amendment, claims 1-23 will be pending in this application. No new matter has been added.

Response to Double Patenting Rejections

Claims 1-23 are rejected under 35 U.S.C. § 101 for statutory double patenting over claims 1-23 of commonly-owned and co-pending U.S. Serial No. 14/273,683.

Independent claims 1, 8, and 16 have been amended in the present application, and independent claim 1 will be amended in a different manner in co-pending U.S. Serial No. 14/273,683 upon filing of an amendment in that application. Accordingly, upon entry of both Amendments, the claims in the current application and the claims in co-pending U.S. Serial No. 14/273,683 will no longer be identical.

Thus, Applicant respectfully submits that the statutory double-patenting rejection has been overcome.

Response to Claim Rejections

Claims 1-4 are rejected under 35 U.S.C. § 102(b) as being anticipated by Dua et al. (US 2008/0110048).

Independent claim 1 has been amended to clarify the invention. In particular, independent claim 1 has been amended to more clearly recite the features of the integral tongue and the method of being joined to the throat area. Specifically, as amended, claim 1 now recites that the integral

knit tongue is joined by knitting to: (1) a forward portion of the throat area, and (2) at least along a portion of ***both of a lateral side and a medial side*** of the throat area of the knitted component ***extending through a portion of a length of the throat area in a longitudinal direction from the forward portion to an ankle opening of the upper.*** (emphasis added)

This feature of Applicant's claimed invention may be seen at least in reference to one or more of FIGS. 5 through 15. For example, with reference to FIGS. 8 and 9, integral knit tongue can be seen as being joined ***by knitting*** at the forward portion of throat area 820, as well as along each of the medial and lateral sides extending along a length of the throat area and towards the collar and ankle opening.

Dua '048 does not disclose this configuration of the integral knit tongue of amended independent claim 1. Figures 8B and 8C show a central textile element 60 that is "stitched" to each of lateral textile element 40 and medial textile element 50. See paragraph [51] of Dua '048. Thus, Dua '048 fails to disclose the recited method that includes joining by knitting as recited in amended independent claim 1.

Therefore, as amended, independent claim 1 is not anticipated by Dua '048. Because claims 2-7 depend from and include all of the limitations of independent claim 1, claims 2-7 are also believed to be patentable over Dua '048.

Conclusion

In view of the foregoing, all of the pending claims in this application are believed to be in condition for allowance. No fee is believed due. Should the Examiner have any questions or determine that any further

Appln. No. 13/781,551
Amdt. Dated December 15, 2014
Reply to Office Action of September 16, 2014

action is desirable to place this application in even better condition for allowance, the Examiner is encouraged to contact the Applicant's representative at the number listed below.

Since this Amendment is being filed within the three-month shortened statutory period for response, which expires on December 16, 2014, no extension of time or other fees are believed to be due, except as detailed in the attached documents or herein. However, any extension of time necessary to prevent abandonment is hereby requested, and any fee necessary for consideration of this response is hereby authorized to be charged to Deposit Account Number 502846.

Respectfully submitted,

PLUMSEA LAW GROUP, LLC

Date: December 15, 2014

By: /Eric M. Gibson/

Eric M. Gibson
Registration Number: 59,058
Telephone number: 301-365-9040

Electronic Acknowledgement Receipt

EFS ID:	20957911
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	57618
Filer:	Eric M. Gibson/Jose Espejo
Filer Authorized By:	Eric M. Gibson
Attorney Docket Number:	51-3238
Receipt Date:	15-DEC-2014
Filing Date:	28-FEB-2013
Time Stamp:	11:44:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Arguments/Remarks Made in an Amendment	2014-12-15_51-3238_Amendment.pdf	108623 d7ed520bc76eb14ac50eeda460564aff619c29a0	no	14

Warnings:

Information:

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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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/781,551	Filing Date 02/28/2013	☐ To be Mailed
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ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1) (Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (j), 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 \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ 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	12/15/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 23	Minus	** 23	= 0	x \$80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$420 =	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 \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	
	☐ 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.

** 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 number found in the appropriate box in column 1.

LIE
/SULONDA D. STEVENSON/

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

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NOTICE OF ALLOWANCE AND FEE(S) DUE

57618 7590 02/26/2015
PLUMSEA LAW GROUP, LLC
6710 A Rockledge Drive
SUITE 400
BETHESDA, MD 20817

EXAMINER

WORRELL JR, LARRY D

ART UNIT

PAPER NUMBER

3765

DATE MAILED: 02/26/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/781,551	02/28/2013	Adrian Meir	51-3238	8567

TITLE OF INVENTION: Method Of Knitting A Knitted Component With An Integral Knit Tongue

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	05/26/2015

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 and an extra copy of the form should be submitted. 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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
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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.

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SUITE 400
BETHESDA, MD 20817

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

13/781,551 02/28/2013 Adrian Meir 51-3238 8567

TITLE OF INVENTION: Method Of Knitting A Knitted Component With An Integral Knit Tongue

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional UNDISCOUNTED \$960 \$0 \$0 \$960 05/26/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
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WORRELL JR, LARRY D 3765 066-177000

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/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form 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, 1 _____
- (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. 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 has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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 DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/781,551	02/28/2013	Adrian Meir	51-3238	8567

57618	7590	02/26/2015
PLUMSEA LAW GROUP, LLC		
6710 A Rockledge Drive		
SUITE 400		
BETHESDA, MD 20817		

EXAMINER	
WORRELL JR, LARRY D	

ART UNIT	PAPER NUMBER
3765	

DATE MAILED: 02/26/2015

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.

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 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, 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.

Notice of Allowability	Application No. 13/781,551	Applicant(s) MEIR ET AL.	
	Examiner DANNY WORRELL	Art Unit 3765	AIA (First Inventor to File) Status No

-- 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 12/15/14.
☐ 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 1-23. 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)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12/2/14</u>	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/DANNY WORRELL/ Primary Examiner, Art Unit 3765	
--	--

Issue Classification 	Application/Control No. 13781551	Applicant(s)/Patent Under Reexamination MEIR ET AL.	
	Examiner LARRY WORRELL JR	Art Unit 3765	

CPC					
Symbol				Type	Version
A43B	1	04		F	2013-01-01
D04B	1	24		I	2013-01-01
A43B	23	0245		I	2013-01-01
A43B	23	0265		I	2013-01-01
A43B	23	26		I	2013-01-01
D04B	1	22		I	2013-01-01
D04B	15	56		I	2013-01-01
D10B	2403	02411		A	2013-01-01
D10B	2403	032		A	2013-01-01
D10B	2501	043		A	2013-01-01
A43B	23	0205		I	2013-01-01
D04B	7	28		I	2013-01-01
D10B	2403	0113		A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
		23	
(Assistant Examiner)	(Date)		
/DANNY WORRELL/ Primary Examiner.Art Unit 3765	02/23/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	9, 24

Receipt date: 12/02/2014

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13781551 - GAIL 3765

Approved for use through 07/31/2012. 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		13781551	
	Filing Date		2013-02-28	
	First Named Inventor	Adrian Meir		
	Art Unit	3765		
	Examiner Name	Larry D. Worrell Jr.		
	Attorney Docket Number	51-3238		

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	6321574		2001-11-27	Marker et al.	

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
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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	2005160697	JP		2005-06-23	ASICS CORP		☐
	2	1782156	CN		2006-06-07	NIPPON MAYER LTD		☐
	3	102271548	CN		2011-12-07	NIKE INTERNATIONAL LTD		☐

Receipt date: 12/02/2014 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	13781551 - GAU: 3765
	Filing Date		2013-02-28	
	First Named Inventor	Adrian Meir		
	Art Unit	3765		
	Examiner Name	Larry D. Worrell Jr.		
	Attorney Docket Number	51-3238		

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

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
	1	Taiwanese Office Action dated November 14, 2014 in Taiwanese Patent Application Number 102105769.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/Danny Worrell/ (02/23/2015)	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.			



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 Alexandria, Virginia 22313-1450
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BIB DATA SHEET

CONFIRMATION NO. 8567

SERIAL NUMBER 13/781,551	FILING or 371(c) DATE 02/28/2013 RULE	CLASS 066	GROUP ART UNIT 3765	ATTORNEY DOCKET NO. 51-3238		
APPLICANTS NIKE, INC., Beaverton, OR INVENTORS Adrian Meir, Portland, OR; Daniel A. Podhajny, Beaverton, OR; Daren P. Tatler, Hillsboro, OR; ** CONTINUING DATA ***** This application is a CIP of 13/400,511 02/20/2012 PAT 8448474 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 03/25/2013						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /LARRY D WORRELL JR/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY OR	SHEETS DRAWINGS 28	TOTAL CLAIMS 23	INDEPENDENT CLAIMS 3
ADDRESS PLUMSEA LAW GROUP, LLC 6710 A Rockledge Drive SUITE 400 BETHESDA, MD 20817 UNITED STATES						
TITLE Method Of Knitting A Knitted Component With An Integral Knit Tongue						
FILING FEE RECEIVED 1980	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			

Search Notes 	Application/Control No. 13781551	Applicant(s)/Patent Under Reexamination MEIR ET AL.
	Examiner LARRY WORRELL JR	Art Unit 3765

CPC- SEARCHED		
Symbol	Date	Examiner
D04B 1/24	2/23/2015	/dw/
A43B 1/04, 23/0245, 23/26	2/23/2015	/dw/
D10B 2401/043, 2403/032	2/23/2015	/dw/

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
66	169R, 170, 171, 177	9/12/2014	/dw/
2	3R, 3A, 84, 114, 47	9/12/2014	/dw/
	update search	2/23/2015	/dw/

SEARCH NOTES		
Search Notes	Date	Examiner
Review related applications	9/12/2014	/dw/
inventor search	9/12/2014	/dw/

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	PGPUBS search	2/23/2015	/dw/

	/L.W./ Primary Examiner.Art Unit 3765
--	--

PRINTER RUSH

(PTO ASSISTANCE)

Application: 13781551

Examiner: Worrell, Jr.

GAU: 3765

From: Anthony McPhail

Location: IDC

Creation Date: 03/30/2015

Tracking #: Week Date: 03/02/2015

<u>DOC CODE</u>	<u>DOC DATE</u>	<u>MISCELLANEOUS</u>
☐ 1449	<u>07/07/2014</u>	☐ Continuing Data
☒ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☐ 312		
☐ SPEC		

[RUSH] Message:

Please initial/line through citations on IDS 07-07-2014; page 2 of the IDS set was not properly initialed/lined through.

Thank you

[XRUSH] Response:

Initials: _____

Examiner: PUBS contacts - for DESIGNS: Don Fairchild, 703-756-1566; for ALL OTHER files: Bernadette Queen, 703-756-1565.

NOTE: This form will be included as part of the official USPTO record with the response document coded as XRUSH.

REV: Oct 11

PRINTER RUSH

(PTO ASSISTANCE)

Application: 13781551

Examiner: Worrell, Jr.

GAU: 3765

From: Anthony McPhail

Location: IDC

Creation Date: 03/30/2015

Tracking #: Week Date: 03/02/2015

<u>DOC CODE</u>	<u>DOC DATE</u>	<u>MISCELLANEOUS</u>
☐ 1449	<u>07/07/2014</u>	☐ Continuing Data
☒ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☐ 312		
☐ SPEC		

[RUSH] Message:

Please initial/line through citations on IDS 07-07-2014; page 2 of the IDS set was not properly initialed/lined through.

Thank you

[XRUSH] Response:

SERVICE CONFIRMED: /D.W./ 04/04/2015 (04/04/2015)

Initials: _____

Examiner: PUBS contacts - for DESIGNS: Don Fairchild, 703-756-1566; for ALL OTHER files: Bernadette Queen, 703-756-1565.

NOTE: This form will be included as part of the official USPTO record with the response document coded as XRUSH.

REV: Oct 11



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/781,551	02/28/2013	Adrian Meir	51-3238	8567

57618 7590 04/08/2015
PLUMSEA LAW GROUP, LLC
6710 A Rockledge Drive
SUITE 400
BETHESDA, MD 20817

EXAMINER

WORRELL JR, LARRY D

ART UNIT	PAPER NUMBER
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3765

MAIL DATE	DELIVERY MODE
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04/08/2015

PAPER

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.

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

Address : COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
13/781,551	28 February, 2013	MEIR ET AL.	51-3238

PLUMSEA LAW GROUP, LLC 6710 A Rockledge Drive SUITE 400 BETHESDA, MD 20817		EXAMINER	
		Danny Worrell	
		ART UNIT	PAPER
		3765	20150404

DATE MAILED:

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

Commissioner for Patents

Attached hereto is a signed and initialed copy of the IDS filed 7/7/14.

/Danny Worrell/
Primary Examiner, Art Unit 3765

Receipt date: 07/07/2014

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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.

13781551 - GALL 3765

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	
	Filing Date		2013-02-28	
	First Named Inventor	Adrian Meir		
	Art Unit	3765		
	Examiner Name	Larry D. Worrell Jr.		
	Attorney Docket Number	51-3238		

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					

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	20050193592		2005-09-08	Dua et al.	
	2	20050115284		2005-06-02	Dua	
	3	20040118018		2004-06-24	Dua	

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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	2013126313	WO		2013-08-29	NIKE INTERNATIONAL LTD		☐

Receipt date: 07/07/2014 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	13781551 - GAU: 3765
	Filing Date		2013-02-28	
	First Named Inventor	Adrian Meir		
	Art Unit	3765		
	Examiner Name	Larry D. Worrell Jr.		
	Attorney Docket Number	51-3238		

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

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
	1	International Search Report and Written Opinion mailed June 20, 2014 in International Application Number PCT/US2014/018852.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/Danny Worrell/ (04/04/2015)	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.			

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(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)

57618 7590 02/26/2015
PLUMSEA LAW GROUP, LLC
6710 A Rockledge Drive
SUITE 400
BETHESDA, MD 20817

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/781,551	02/28/2013	Adrian Meir	51-3238	8567

TITLE OF INVENTION: Method Of Knitting A Knitted Component With An Integral Knit Tongue

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	05/26/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
WORRELL JR, LARRY D	3765	066-177000

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/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form 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 Plumsea Law Group, LLC
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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

NIKE, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Beaverton, Oregon

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☒ Payment by credit card. Via EFS-WEB \$960.00.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 502846 (enclose an extra copy of this form).

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 May 13, 2015

Typed or printed name Eric M. Gibson

Registration No. 59,058

Electronic Patent Application Fee Transmittal				
Application Number:		13781551		
Filing Date:		28-Feb-2013		
Title of Invention:		Method Of Knitting A Knitted Component With An Integral Knit Tongue		
First Named Inventor/Applicant Name:		Adrian Meir		
Filer:		Eric M. Gibson/Jose Espejo		
Attorney Docket Number:		51-3238		
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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Utility Appl Issue Fee	1501	1	960	960
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt

EFS ID:	22331653
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	57618
Filer:	Eric M. Gibson/Jose Espejo
Filer Authorized By:	Eric M. Gibson
Attorney Docket Number:	51-3238
Receipt Date:	13-MAY-2015
Filing Date:	28-FEB-2013
Time Stamp:	11:19:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 960
RAM confirmation Number	8548
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	Issue Fee Payment (PTO-85B)	2015-05-13_51-3238_IF_Transmittal.pdf	157338	no	1
			c02ba9efec741f272d1cc535d641f4e02081de29		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32298	no	2
			1374465b46e4119bb9ba42d38ad4f155d3e92c24		
Warnings:					
Information:					
Total Files Size (in bytes):			189636		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

Receipt date: 05/09/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	13781551 - GAU: 3765
	Filing Date		2013-02-28	
	First Named Inventor	Meir		
	Art Unit	3765		
	Examiner Name	TBD		
	Attorney Docket Number	51-3238		

	20	3972086		1976-08-03	Belli	
	21	4027402		1977-06-07	Liu	
	22	4031586		1977-06-28	Von den Benken	
	23	4211806	A	1980-07-08	Civardi	
	24	4255949	A	1981-03-17	Thorneburg	
	25	4317292	A	1982-03-02	Melton	
	26	4373361	A	1983-02-15	Thorneburg	
	27	4447967	A	1984-05-15	Zaino	
	28	4465448		1984-08-14	Aldridge	
	29	4499741	A	1985-02-19	Harris	
Change(s) applied to document 30 /A.E.M./	30	4607439	A	1986-08-26	Sogabe et al. ~~Hareda~~	

4/10/2015
EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.W./

Receipt date: 09/30/2013 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13781551	13781551 - GAU: 3765
	Filing Date		2013-02-28	
	First Named Inventor	Adrian Meir		
	Art Unit	3765		
	Examiner Name	Larry D. Worrell Jr.		
	Attorney Docket Number	51-3238		

Change(s) applied
to document.
/A.E.M./
4/10/2015

9	6333105		2001-12-25	Tanaka et al.	
10	3583081		1974-06-08	Hayashi	
11	4447967		1984-05-15	Zaino ~~Montara~~	
12	4813158		1989-03-21	Brown	
13	4756098		1988-07-12	Boggia	
14	5345638		1994-09-13	Nishida	
15	4785558		1988-11-22	Shiomura	

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	20020148258		2002-10-17	Cole et al.	

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

FOREIGN PATENT DOCUMENTS



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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/781,551	06/23/2015	9060562	51-3238	8567

57618 7590 06/03/2015
PLUMSEA LAW GROUP, LLC
6710 A Rockledge Drive
SUITE 400
BETHESDA, MD 20817

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 141 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 Data Management (ODM) at (571)-272-4200.

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

Adrian Meir, Portland, OR;
Daniel A. Podhajny, Beaverton, OR;
Daren P. Tatler, Hillsboro, OR;
NIKE, INC., Beaverton, OR

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.

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Appln. No. : 13/781,551 Confirmation No. 8567
Applicant : Adrian Meir et al.
Filed : February 28, 2013
Title : Method Of Knitting A Knitted Component
With An Integral Knit Tongue
TC/A.U. : 3765
Examiner : Larry D. Worrell, Jr.
Attorney Docket No.: 51-3238
Customer No. : 57618

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

**REQUEST FOR CERTIFICATE OF CORRECTION
UNDER 37 C.F.R. § 1.322**

Sir:

Attached is a Certificate of Correction, Form PTO/SB/44. This Request is filed to correct an error in the spelling of an inventor's name in field (72) of the title page of U.S. Patent No. 9,060,562. A Declaration indicating the correct spelling of the inventor's name (Adrian Meir) was filed on July 17, 2013. A copy of an Updated Official Filing Receipt mailed on June 12, 2013, reflecting the correct spelling of the inventor's name also is attached. Patentees request that the title page be reprinted with the correction. Because this Request only corrects an error made by the U.S. Patent & Trademark Office, no fee is required.

Appln. No. 13/781,551
Request for Certificate of Correction Dated August 21, 2015

Please send the Certificate of Correction to Patentees' attorneys, Plumsea Law Group, LLC, 6710A Rockledge Drive, Suite 400, Bethesda, MD 20817.

Respectfully submitted,

PLUMSEA LAW GROUP, LLC

Date: August 21, 2015

By: /Eric M. Gibson/

Eric M. Gibson
Registration Number: 59,058
Telephone number: 301-365-9040

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 9,060,562

APPLICATION NO.: 13/781,551

ISSUE DATE : June 23, 2015

INVENTOR(S) : Adrian Meir, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page, item (72) Inventors:

"Adrain Meir" should read --Adrian Meir--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Plumsea Law Group, LLC
6710A Rockledge Drive, Suite 400
Bethesda, MD 20817

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 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: Attention Certificate of Corrections Branch, 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.

Privacy Act Statement

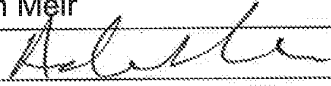
The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection 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.

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.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	Method Of Knitting A Knitted Component With An Integral Knit Tongue
As the below named inventor, I hereby declare that:	
This declaration is directed to: ☐ The attached application, or	
☒ United States application or PCT international application number <u>13/781,551</u>	
filed on <u>February 28, 2013</u>	
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: <u>Adrian Meir</u>	Date (Optional): <u>06/14/13</u>
Signature: <u></u>	
Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 minute 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 NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FILE FEE REC'D	ATTY DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/781,551 ✓	02/28/2013 ✓	3765	1980	51-3238 ✓	23	3

CONFIRMATION NO. 8567 ✓

57618
PLUMSEA LAW GROUP, LLC
10411 MOTOR CITY DRIVE
SUITE 320
BETHESDA, MD 20817

DOCKETED
JUN 17 2013
UPDATE OFFICIAL
Confirm #

UPDATED FILING RECEIPT



JUN 14 2013

Date Mailed: 06/12/2013

PLUMSEA LAW GROUP

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)

Adrian Meir, Portland, OR; ✓
Daniel A. Podhajny, Beaverton, OR; ✓
Daren P. Tatler, Hillsboro, OR; ✓

Applicant(s)

Nike, Inc., Beaverton, OR ✓

Assignment For Published Patent Application

Nike, Inc., Beaverton, OR

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/400,511 02/20/2012 PAT 8448474

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 03/25/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/781,551**

Projected Publication Date: 09/19/2013

page 1 of 3

Non-Publication Request: No

Early Publication Request: No
Title

Method Of Knitting A Knitted Component With An Integral Knit Tongue ✓

Preliminary Class

066

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).

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 Assets Control, 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).

SelectUSA

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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

Electronic Acknowledgement Receipt	
EFS ID:	23273728
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	57618
Filer:	Eric M. Gibson/Jose Espejo
Filer Authorized By:	Eric M. Gibson
Attorney Docket Number:	51-3238
Receipt Date:	21-AUG-2015
Filing Date:	28-FEB-2013
Time Stamp:	11:19:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	2015-08-21_51-3238_Request_Cert_Correction.pdf	396657 2bb5d25427e5b357f6c3989849bf59014d551a2f	no	8

Warnings:

Information:

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.

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

133691

OR

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used).

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

133691

OR

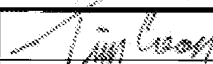
☐	Firm or Individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address: NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005-6453

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. 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.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	8/11/15
Name	Timothy J. Crean	Telephone	
Title	Attorney-in-Fact, NIKE, Inc.		

This collection of information is required by 37 CFR 1.31, 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.

Electronic Acknowledgement Receipt

EFS ID:	23372723
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	57618
Filer:	Christopher J. Gerardot/Maggie Krause
Filer Authorized By:	Christopher J. Gerardot
Attorney Docket Number:	51-3238
Receipt Date:	02-SEP-2015
Filing Date:	28-FEB-2013
Time Stamp:	09:59:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	1557146tl.pdf	63579 cb1038b4093393b256989283409782ee89afb3dd	no	1

Warnings:

Information:

2	Assignee showing of ownership per 37 CFR 3.73	1557146373c.pdf	98413 f052e8cb56fe36c76cec3ce6a4688e090c73503a	no	3
Warnings:					
Information:					
3	Power of Attorney	Nike_POA.pdf	517925 4b877fcd40a6eae8b5a1449bb0e88efe2a6e2614	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			679917		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

CERTIFICATE OF EFS FILING UNDER 37 CFR §1.8

I hereby certify that this correspondence is being electronically transmitted to the United States Patent and Trademark Office, Commissioner for Patents, via the EFS pursuant to 37 CFR §1.8 on the below date:

Date: September 2, 2015 Name: Christopher J. Gerardot, Reg. No. 73,644 Signature: /Christopher J. Gerardot/

BRINKS
GILSON
& LIONE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: Meir et al.

Appln. No.: 13/781,551

Filed: February 28, 2013

For: Method Of Knitting A Knitted
Component With An Integral Knit
Tongue

Attorney Docket No.: 15571/46

Examiner: Worrell, Jr., Larry D.

Art Unit: 3765

Conf. No.: 8567

TRANSMITTAL

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Attached are:

☒ Power of Attorney (1 pg); Statement Under 37 C.F.R. §3.73(c) (3 pgs.).

Fee calculation:

- ☒ No additional fee is required.
- ☐ Per 37 CFR §1.27, ☐ Applicant is small entity ☐ Applicant is micro entity.
- ☐ An extension fee in an amount of \$_____ for a _____-month extension of time under 37 CFR § 1.136(a).
- ☐ A petition or processing fee in an amount of \$_____ under 37 CFR § 1.17(_____).
- ☐ An additional filing fee has been calculated as shown below:

					Fee		Small Entity Fee		Micro Entity Fee	
	Claims Remaining After Amendment		Highest No. Previously Paid	Present Extra	Rate	Add'l Fee	Rate	Add'l Fee	Rate	Add'l Fee
Total		Minus			x \$ 80 =	\$	x \$ 40 =	\$	x \$20 =	\$
Independent		Minus			x \$420 =	\$	x \$210 =	\$	x \$105 =	\$
First Presentation of Multiple Dep. Claim					+ \$780 =	\$	+ \$390 =	\$	+ \$195 =	\$
					Total	\$	Total	\$	Total	\$

Fee payment:

- ☐ Please charge Deposit Account No. 23-1925 in the amount of \$_____ for _____.
- ☐ Payment by credit card in the amount of \$_____ (Form PTO-2038 is attached).
WARNING: Information on this form may become public. **Credit card information should not be included on this form.**
- ☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

Respectfully submitted,

September 2, 2015
Date

/Christopher J. Gerardot/
Christopher J. Gerardot (Reg. No. 73,644)

BRINKS
GILSON
& LIONE

BRINKS GILSON & LIONE
NBC Tower – Suite 3600, 455 N. Cityfront Plaza Drive, Chicago, IL 60611-5599

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: NIKE, INC. 15571/46 (120188US03)
Application No./Patent No.: 13/781,551 Filed/Issue Date: February 28, 2013
Titled: METHOD OF KNITTING A KNITTED COMPONENT WITH AN INTEGRAL KNIT TONGUE
NIKE, INC., a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 030819, Frame 0063, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). 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 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.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Christopher J. Gerardot/

September 2, 2015

Signature

Date

Christopher J. Gerardot

73,644

Printed or Typed Name

Title or Registration 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.



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
13/781,551	02/28/2013	Adrian Meir	15571/46

133691
NIKE, Inc./BGL
P.O. Box 10395
Chicago, IL 60610

CONFIRMATION NO. 8567
POA ACCEPTANCE LETTER



OC000000077356719

Date Mailed: 09/10/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/02/2015.

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.

/snguyen/



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
13/781,551	02/28/2013	Adrian Meir	51-3238

57618
PLUMSEA LAW GROUP, LLC
6710 A Rockledge Drive
SUITE 400
BETHESDA, MD 20817

CONFIRMATION NO. 8567
POWER OF ATTORNEY NOTICE



Date Mailed: 09/10/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/02/2015.

- The Power of Attorney to you in this application has been revoked by the applicant. 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.

/snguyen/

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,060,562 B2
APPLICATION NO. : 13/781551
DATED : June 23, 2015
INVENTOR(S) : Adrian Meir et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page, item (72) Inventors:

“Adrain Meir” should read --Adrian Meir--

Signed and Sealed this
Eighth Day of December, 2015

A handwritten signature in black ink, reading "Michelle K. Lee". The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

Michelle K. Lee
Director of the United States Patent and Trademark Office

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	13/781551
Filing Date	2013-02-28
First Named Inventor	Adrian Meir
Title	Method Of Knitting A Knitted Component With An Integral Knit Tongue
Art Unit	
Examiner Name	
Attorney Docket Number	120188US03

SIGNATURE of Applicant or Patent Practitioner

Signature	/CORY W. FISHER/	Date (Optional)	
Name	Cory W. Fisher	Registration Number	59,366
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.

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.

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

POWER OF ATTORNEY BY APPLICANT

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.)

☒ I hereby appoint the 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:

78342

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 or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

NIKE, Inc.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

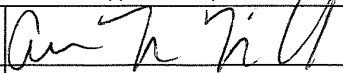
☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ 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



Date (Optional)

Name

Ann M. Miller

Title

Secretary, NIKE, Inc.

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 _____ forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	41988029
Application Number:	13781551
International Application Number:	
Confirmation Number:	8567
Title of Invention:	Method Of Knitting A Knitted Component With An Integral Knit Tongue
First Named Inventor/Applicant Name:	Adrian Meir
Customer Number:	133691
Filer:	Cory Wayne Fisher/Brandon Large
Filer Authorized By:	Cory Wayne Fisher
Attorney Docket Number:	15571/46
Receipt Date:	22-FEB-2021
Filing Date:	28-FEB-2013
Time Stamp:	17:31:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	120188US03.pdf	225689 2d09a5d22c34409311fe68a656d593865bd7e5a1	no	2

Warnings:

Information:	
Total Files Size (in bytes):	225689
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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
13/781,551	02/28/2013	Adrian Meir	15571/46

133691
NIKE, Inc./BGL
P.O. Box 10395
Chicago, IL 60610

CONFIRMATION NO. 8567
POWER OF ATTORNEY NOTICE



OC000000123671122

Date Mailed: 03/01/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/22/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. 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.

/cnguyen/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/781,551	02/28/2013	Adrian Meir	120188US03

CONFIRMATION NO. 8567

POA ACCEPTANCE LETTER



OC000000123671153

Date Mailed: 03/01/2021

78342

Shook Hardy & Bacon LLP (NIKE, Inc.)
2555 Grand Boulevard
Kansas City, MO 64108

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/22/2021.

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.

/cnguyen/

To: shbdocketing@shb.com,ipdocket@shb.com,nike_docketing@cardinal-ip.com
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 78342

Mar 01, 2021 04:06:03 AM

Dear PAIR Customer:

Shook Hardy & Bacon LLP (NIKE, Inc.)
2555 Grand Boulevard
Kansas City, MO 64108
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 78342 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13781551	N570	03/01/2021	120188US03
	N570	03/01/2021	120188US03

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

AO 120 (Rev. 08/10)

TO:	Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. 1116, you are hereby advised that a court action has been filed in the U.S. District Court for the District of Oregon on the following

☐ Trademarks or ☒ Patents (☐ the patent action involves 35 U.S.C. § 292):

DOCKET NO. 3:21-cv-01780-YY	DATE FILED 12/8/2021	U.S. DISTRICT COURT District of Oregon
PLAINTIFF Nike, Inc.		DEFENDANT adidas AG, a foreign corporation
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,814,598	10/19/2010	Nike
2 8,266,749	9/18/2012	Nike
3 8,898,932	12/2/2014	Nike
4 9,060,562	6/23/2015	Nike
5 9,510,636	12/6/2016	Nike

In the above-entitled case, the following patent(s)/trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,743,705	8/29/2017	Nike
2 9,907,350	3/18/2018	Nike
3 9,918,511	3/20/2018	Nike
4 9,924,758	3/27/2018	Nike
5		

In the above-entitled case, the following decision has been rendered or judgment issued:

DECISION/JUDGMENT		
CLERK MARY L. MORAN	(BY) DEPUTY CLERK E. Potter	DATE 12/9/2021

Copy 1 Upon initiation of action, mail this copy to Director Copy 3 Upon termination of action, mail this copy to Director
Copy 2 Upon filing document adding patent(s), mail this copy to Director Copy 4 Case file copy