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(54) **METHOD FOR KNITTING GLOVE, AND GLOVE**

(57) The present invention provides a method for knitting a glove curved to easily grip a grip, and a glove obtained through such knitting method. A palm side connecting to a back side of a second four-finger body portion (3B) is configured by an index finger side flechage portion (7a) formed by carrying out flechage knitting such that the number of wales gradually reduces from a knitted fabric end on an index finger side. A thumb side inclined

section (9) formed through narrowing knitting on the palm side connecting to the back side of the second five-finger body portion (5B) is connected to a first five-finger body portion (5A) by way of a buffer section (8) that disperses the distortion of the knitted fabric, where the wale of the stitches of the first five-finger body portion (5A) and the wale of the stitches of the thumb side inclined section (9) are intersected.

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Description

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] The present invention relates to a method for knitting a glove, and a glove.

Description of the Related Art

[0002] Attempts have been made to sew and knit finger tubes and four-finger body of a glove while being bent toward a palm side in advance to prevent slack from occurring on the palm side of the glove, thus enhancing the fitting property and enabling objects to be easily grasped. For example, Patent Document 1 describes a glove that fits to the hand, the glove being able to be held in a state curved toward the palm side by knitting the center of the knitting width on the back side to a state in which the number of stitches in a wale direction is large with respect to the center of the knitting width on the palm side.

PRIOR ART DOCUMENT

PATENT DOCUMENT

[0003] [Patent Document 1] Japanese Unexamined Patent Publication No. 2012-202008

SUMMARY OF THE INVENTION

[0004] However, in recent years, suitable gloves for gripping a grip such as sports gloves to be used for golf, baseball, or bicycle are being desired by consumers. With advancement in the diversification of the needs of gloves, the gloves obtained through the conventional sewing and knitting techniques including that described in Patent Document 1 are not suited for gripping the grip and hence are inadequate. Thus, a novel glove for gripping the grip, different from the conventional gloves, is desired.

[0005] In light of the foregoing, it is an object of the present invention to provide a method for knitting a glove curved to easily grip a grip, and a glove obtained through such knitting method.

[Means for Solving the Problem]

[0006] The present invention relates to a method for knitting a glove including a thumb tubular section, a four-finger body section, and a five-finger body section knitted to a tubular shape, and in which knitting is started from a fingertip side and terminated on a wrist section side using a flat knitting machine including at least a pair of front and back needle beds; the method including:

step a, the four-finger body section including a first

four-finger body portion, a second four-finger body portion, and a third four-finger body portion, and step a including forming a new stitch with a palm side and a back side connected to knit the first four-finger body portion, forming an index finger side flechage portion inclined by repeating a flechage knitting of gradually narrowing a knitting width at one part of a knitting width of an index finger side on the palm side while knitting the back side and the palm side to a C-shape to knit the second four-finger body portion, and forming a new stitch with the palm side and the back side connected to knit the third four-finger body portion; step b of knitting the thumb tubular section to a tubular shape, and

step c, the five-finger body section including a first five-finger body portion, a second five-finger body portion, and a third five-finger body portion, and step c including knitting the first five-finger body portion while forming a new stitch with the palm side and the back side connected following a wale of stitches of the third four-body portion and the thumb tubular section, carrying out narrowing knitting to overlap a thumb side inclined section on a region on the thumb tubular section side of a buffer section while knitting the buffer section and the thumb side inclined section through flechage knitting on the thumb tubular section side of the first five-finger body portion on the palm side while knitting the back side and the palm side to a C-shape to knit the second five-finger body portion, and forming a new stitch with the palm side and the back side connected to knit the third five-finger body portion to a tubular shape.

[0007] According to the present invention, in the knitting of the second four-finger body portion of step a, knitting is carried out while forming a little finger side flechage portion inclined by repeating the flechage knitting of gradually narrowing the knitting width on a little finger side.

[0008] Moreover, the present invention relates to a glove, knitted using a flat knitting machine, including a thumb tubular section, a four-finger body section, and a five-finger body section knitted to a tubular shape with stitches on a palm side and stitches on a back side connected at an end, wherein

the four-finger body section has a first four-finger body portion, a second four-finger body portion, and a third four-finger body portion lined, and the five-finger body section has a first five-finger body portion, a second five-finger body portion, and a third five-finger body portion lined; and

the palm side connecting to the back side of the second four-finger body portion is configured by an index finger side flechage portion formed by carrying out flechage knitting such that the number of wales gradually reduces from a knitted fabric end on an index finger side; a thumb side inclined section formed through narrowing knitting on the palm side connecting to the back side of the second five-finger body portion is connected to the first five-

finger body portion by way of a buffer section that disperses the distortion of the knitted fabric; and the wale of the stitches of the first five-finger body portion and the wale of the stitches of the thumb side inclined section are intersected.

[Effects of the Invention]

[0009] In the present invention, the flechage knitting of gradually reducing the knitting width is carried out to form the index finger side flechage portion on the index finger side of the second four-finger body portion of the glove, and then a new stitch is formed to knit the third four-finger body portion, so that the glove can be curved toward the palm side with a shape lying along the grip due to the difference in length and the difference in number of courses at a connecting portion of the second four-finger body portion and the third four-finger body portion. Furthermore, according to the flechage knitting, an area connecting to the inclined portion of the third four-finger body portion and the index finger side flechage portion becomes a region where the stitches are pulled along the inclination, and an area connecting to a flat portion of the third four-finger body portion and the index finger side flechage portion becomes a bulged region. Such bulged region becomes the portion to be fitted when gripping a grip-like object. With the arrangement of the buffer section in the second five-finger body portion, the extending/contracting force of the connecting area can be dispersed, and the first five-finger body portion and the thumb side inclined section are connected by way of the buffer section. Thus, with the effects of both the state in which the wale of the stitches of the first five-finger body portion and the wale of the stitches of the thumb tubular section are intersected, and pulled region of the second four-finger body portion described above, the glove can be curved with a space between the thumb and the index finger as the base point.

[0010] In the present invention, a region to be curved is extended by carrying out flechage knitting of gradually reducing the knitting width on a little finger side in addition to a part of the knitting width on the index finger side, on the palm side of the four-finger body portion, so that a glove that is easier to grip can be formed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011]

Fig. 1 is an enlarged view of a main portion of a glove shown in the present embodiment; and Figs. 2A and 2B are knitting schematic views of a palm side and a back side of the glove shown in the present embodiment.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0012] Hereinafter, an embodiment of a glove 1 and a method for knitting the same according to the present invention will be described based on the drawings. In the embodiment, a palm side of the glove 1 is knitted with a front needle bed, and a back side is knitted with a back needle bed. The palm side and the back side of the glove 1 may be knitted with either front or back needle bed, respectively.

«Overall configuration»

[0013] In an example, a method for knitting the glove 1 curved to easily grip a grip and the glove 1 will be described using a thumb tubular section 4, a four-finger body section 3, and a five-finger body section 5 knitted to a tubular shape shown in Fig. 1.

[0014] The four-finger body section 3 is in a state a first four-finger body portion 3A, a second four-finger body portion 3B, and a third four-finger body portion 3C are lined, and the five-finger body section 5 is in a state a first five-finger body portion 5A, a second five-finger body portion 5B, and a third five-finger body portion 5C are lined. The palm side connecting to the back side of the second four-finger body portion 3B is configured by an index finger side flechage portion 7a knitted by carrying out flechage knitting such that the number of wales gradually reduces from a knitted fabric end on an index finger side. A thumb side inclined section 9 formed through narrowing knitting on the palm side connecting to the back side of the second five-finger body portion 5B is connected to the first five-finger body portion 5A by way of a buffer section 8 that disperses the distortion of the knitted fabric, where the wale of the stitches of the first five-finger body portion 5A and the wale of the stitches of the thumb side inclined section 9 are intersected.

«Knitting procedure»

[0015] Fig. 2A is a knitting schematic view of the palm side of the glove 1, and Fig. 2B is a knitting schematic view of the back side. The glove 1 shown in the present embodiment is knitted with a 1x1 rib structure knitted using an elastic yarn for a base yarn, where the elastic yarn applied with tension is inlay knitted in each course. A knitting pattern configuring the glove 1 is not limited, and for example, plain pattern or other different patterns may be adopted. Although not illustrated, the knitting of the glove 1 includes sequentially knitting each finger tube, and then integrally knitting in a seamless manner while joining with a body section toward a wrist section 6.

[0016] The glove 1 is knitted through a known knitting method, where knitting is carried out by sequentially knitting an index finger tube, a middle finger tube, and a ring finger tube, joining the tubes each other to shift to a three-finger body section 2, and joining a subsequently knitted

little finger tube and the three-finger body section 2 each other to shift to the four-finger body section 3. The four-finger body section 3 is configured by the first four-finger body portion 3A, the second four-finger body portion 3B, and the third four-finger body portion 3C. First, the first four-finger body portion 3A is knitted to a tubular shape up to line α with the stitches on the palm side and the stitches on the back side connected at an end. The central part on the palm side, for example, may not be knitted, and the knitting may be carried out to a C-shape. In this case, a shape suited for the grip can be formed in combination with the effect of a little finger side flechage portion 7b, to be described later. Following the first four-finger body portion 3A, on the palm side, the flechage knitting of obtaining an inactive state by sequentially removing the knitting needles from knitting on an index finger side b-h and a little finger side c-i is repeated while knitting the back side and the palm side to a C-shape, and the second four-finger body portion 3B is knitted while forming the inclined index finger side flechage portion 7a and the little finger side flechage portion 7b. The little finger side flechage portion 7b knitted at the little finger side on the palm side is knitted up to line β of the second four-finger body portion 3B, and the flechage knitting is carried out for the following knitting up to line γ while gradually reducing the knitting width on the back side. The flechage knitting of the little finger side flechage portion 7b and the back side does not necessarily require knitting, but the flechage knitting is carried out so that the subsequently knitted second four-finger body portion 3B and the first four-finger body portion 3A can be joined. Other knitting methods may be adopted as long as the second four-finger body portion 3B and the first four-finger body portion 3A can be joined. Further, the flechage knitting may not be carried out on the back side, and may be carried out only at the little finger side flechage portion 7b. When the little finger side flechage portion 7b is formed, a range in which the glove 1 curves toward the palm side is expanded, so that gripping can be more easily carried out. Thereafter, a new stitch is continuously formed from line γ , including the tuck stitches of the inclined portions a-b, c-d, e-f formed in both flechage portions 7a, 7b, to knit the third four-finger body portion 3C to a tubular shape.

[0017] A new stitch is formed in a stitch row of the second four-finger body portion 3B, the index finger side flechage portion 7a, and the little finger side flechage portion 7b to knit the third four-finger body portion 3C, so that the glove 1 can be curved toward the palm side with a shape lying along the grip due to a difference in length and a difference in number of courses at the connecting portion of the second four-finger body portion 3B and the third four-finger body portion 3C. Furthermore, according to the flechage knitting, an area connecting to the inclined portion a-b of the third four-finger body portion 3C and the index finger side flechage portion 7a becomes a region where the stitches are pulled along the inclination, and an area connecting to a flat portion a-g of the third

four-finger body portion 3C and the index finger side flechage portion 7a becomes a bulged region where the number of stitches is greater than the other areas. Such bulged region becomes the portion to be fitted when gripping a grip-like object.

[0018] After knitting the four-finger body section 3, the thumb tubular section 4 is knitted to a tubular shape, and then the five-finger body section 5 is formed from line δ . The five-finger body section 5 is configured by the first five-finger body portion 5A, the second five-finger body portion 5B, and the third five-finger body portion 5C. First, following the wale of the stitches of the third four-finger body portion 3C and the thumb tubular section 4, the first five-finger body portion 5A is knitted to line ϵ with the stitches on the palm side and the stitches on the back side connected at the end. Next, the buffer section 8 and the thumb side inclined section 9 are knitted through flechage knitting of gradually increasing the knitting width at a portion j-k, k-l of the knitting width on the thumb tubular section 4 side of the first five-finger body portion 5A on the palm side to connect to the first five-finger body portion 5A. Furthermore, the narrowing knitting is carried out to overlap the thumb side inclined section 9 on the region on the thumb tubular section 4 side of the buffer section 8 to knit the second five-finger body portion 5B up to line ζ , so that the thumb side inclined section 9 is connected to the first five-finger body portion 5A by way of the buffer section 8. On the back side, a new stitch row is formed with a knitting width of the first five-finger body portion 5A, and the knitting end on the right side is also knitted in an inclining manner so as to be connected and joined to the third five-finger body portion 5C subsequently knitted to a tubular shape using the flechage knitting. In the present embodiment, the narrowing process is carried out once when knitting the buffer section 8 and the thumb side inclined section 9 for two courses.

[0019] With the arrangement of the thumb side inclined section 9 and the buffer section 8, the wale of the stitches of the first five-finger body portion 5A and the wale of the stitches of the thumb side inclined section 9 are in an intersecting state, the index finger side flechage portion 7a and the little finger side flechage portion 7b described above mutually act so that the glove is curved with the space between the thumb and the index finger as a base point. Furthermore, tautness or bagginess are less likely to occur as the extending/contracting force of the connecting area of the first five-finger body portion 5A and the thumb side inclined section 9 is dispersed by forming the buffer section 8. To prevent tautness and bagginess from occurring, the buffer section 8 is preferably formed with a plurality of stitch rows. In the present embodiment, the first five-finger body portion 5A and the thumb side inclined section 9 are joined at a ratio of 2:1, where the extending/contracting force is satisfactorily dispersed by providing the buffer section 8 with respect to the joining ratio of 2:1.

[0020] The third five-finger body portion 5C is knitted to a tubular shape following the knitting of the stitches of

the second five-finger body portion 5B. The wrist section 6 is then knitted to a tubular shape up to a terminating end, and then a known bind-off process is carried out to complete the knitting of the glove 1. The glove 1 is knitted with a 1 x1 rib structure using the elastic yarn for the base yarn, and the elastic yarn applied with tension is formed through inlay knitting in each course, so that the glove 1 can be curved stronger with a space between the thumb and the index finger as a base point.

[0021] The glove 1 obtained from the knitting processes described above is a glove suited for gripping a grip used for golf, baseball, bicycle, or the like. The position and the like of the flechage knitting of the index finger side flechage portion 7a and the little finger side flechage portion 7b formed on the palm side of the second four-finger body portion 3B may be changed to change the shape and the size on the right and left, thus adjusting the bending degree of the glove.

Reference Signs List

[0022]

1	a glove	
2	a three-finger body section	25
3	a four-finger body section	
3A	a first four-finger body portion	
3B	a second four-finger body portion	
3C	a third four-finger body portion	
4	a thumb tubular section	30
5	a five-finger body section	
5A	a first five-finger body portion	
5B	a second five-finger body portion	
5C	a third five-finger body portion	
6	a wrist section	35
7a	an index finger side flechage portion	
7b	a little finger side flechage portion	
8	a buffer section	
9	a thumb side inclined section	40

Claims

1. A method for knitting a glove (1) including a thumb tubular section (4), a four-finger body section (3), and a five-finger body section (5) knitted to a tubular shape, and in which knitting is started from a fingertip side and terminated on a wrist section (6) side using a flat knitting machine including at least a pair of front and back needle beds; **characterized in** the method comprising:

step a, the four-finger body section (3) including a first four-finger body portion (3A), a second four-finger body portion (3B), and a third four-finger body portion (3C), and step a including forming a new stitch with a palm side and a back side connected to knit the first four-finger body

portion (3A), forming an index finger side flechage portion (7a) inclined by repeating a flechage knitting of gradually narrowing a knitting width at one part of a knitting width of an index finger side on the palm side while knitting the back side and the palm side to a C-shape to knit the second four-finger body portion (3B), and forming a new stitch with the palm side and the back side connected to knit the third four-finger body portion (3C);
 step b of knitting the thumb tubular section (4) to a tubular shape, and
 step c, the five-finger body section (5) including a first five-finger body portion (5A), a second five-finger body portion (5B), and a third five-finger body portion (5C), and step c including knitting the first five-finger body portion (5A) while forming a new stitch with the palm side and the back side connected following a wale of stitches of the third four-body portion (3C) and the thumb tubular section (4), carrying out narrowing knitting to overlap a thumb side inclined section (9) on a region on the thumb tubular section (4) side of a buffer section (8) while knitting the buffer section (8) and the thumb side inclined section (9) through flechage knitting on the thumb tubular section (4) side of the first five-finger body portion (5A) on the palm side while knitting the back side and the palm side to a C-shape to knit the second five-finger body portion (5B), and forming a new stitch with the palm side and the back side connected to knit the third five-finger body portion (5C) to a tubular shape.

2. The method for knitting the glove according to claim 1, characterized in that in the knitting of the second four-finger body portion (3B) of step a, knitting is carried out while forming a little finger side flechage portion (7b) inclined by repeating the flechage knitting of gradually narrowing the knitting width on a little finger side.

3. A glove (1), knitted using a flat knitting machine, including a thumb tubular section (4), a four-finger body section (3), and a five-finger body section (5) knitted to a tubular shape with stitches on a palm side and stitches on a back side connected at an end, **characterized in that** the four-finger body section (3) has a first four-finger body portion (3A), a second four-finger body portion (3B), and a third four-finger body portion (3C) lined, and the five-finger body section (5) has a first five-finger body portion (5A), a second five-finger body portion (5B), and a third five-finger body portion (5C) lined; and the palm side connecting to the back side of the second four-finger body portion (3B) is configured by an index finger side flechage portion (7a) formed by car-

rying out flechage knitting such that the number of wales gradually reduces from a knitted fabric end on an index finger side; a thumb side inclined section (9) formed through narrowing knitting on the palm side connecting to the back side of the second five-finger body portion (5B) is connected to the first five-finger body portion (5A) by way of a buffer section (8) that disperses the distortion of the knitted fabric; and the wale of the stitches of the first five-finger body portion (5A) and the wale of the stitches of the thumb side inclined section (9) are intersected.

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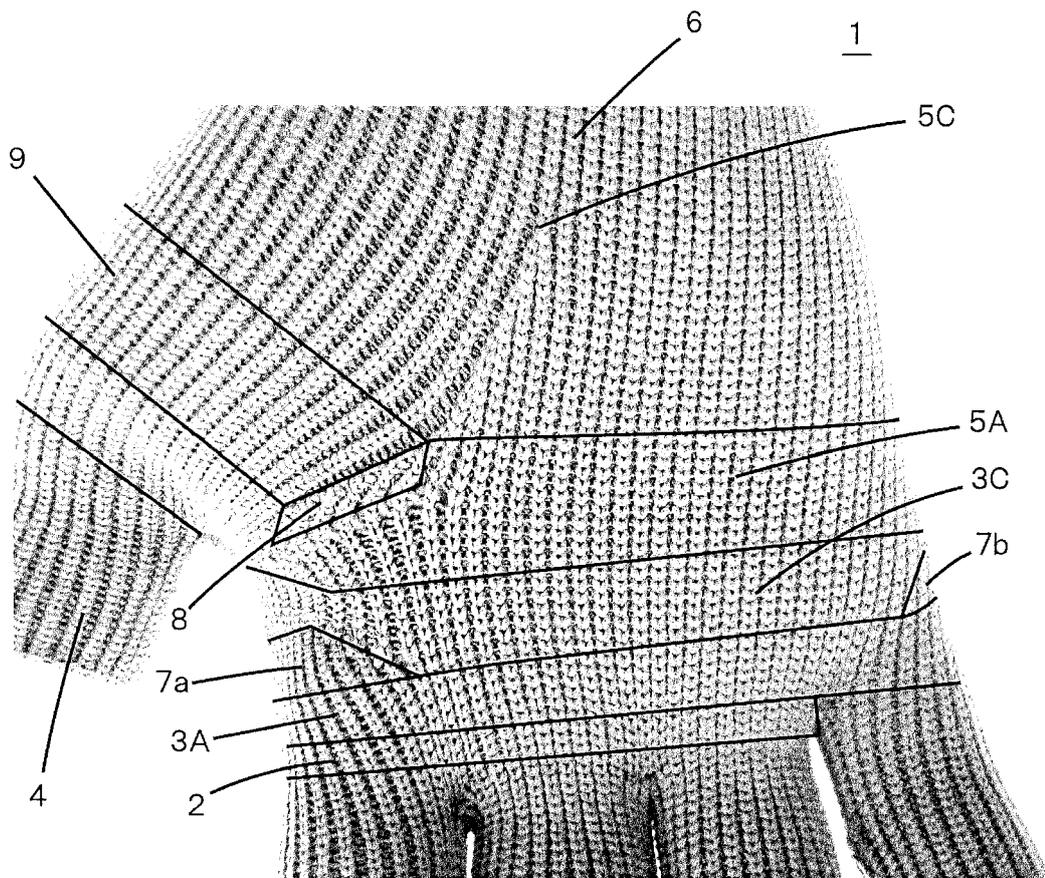
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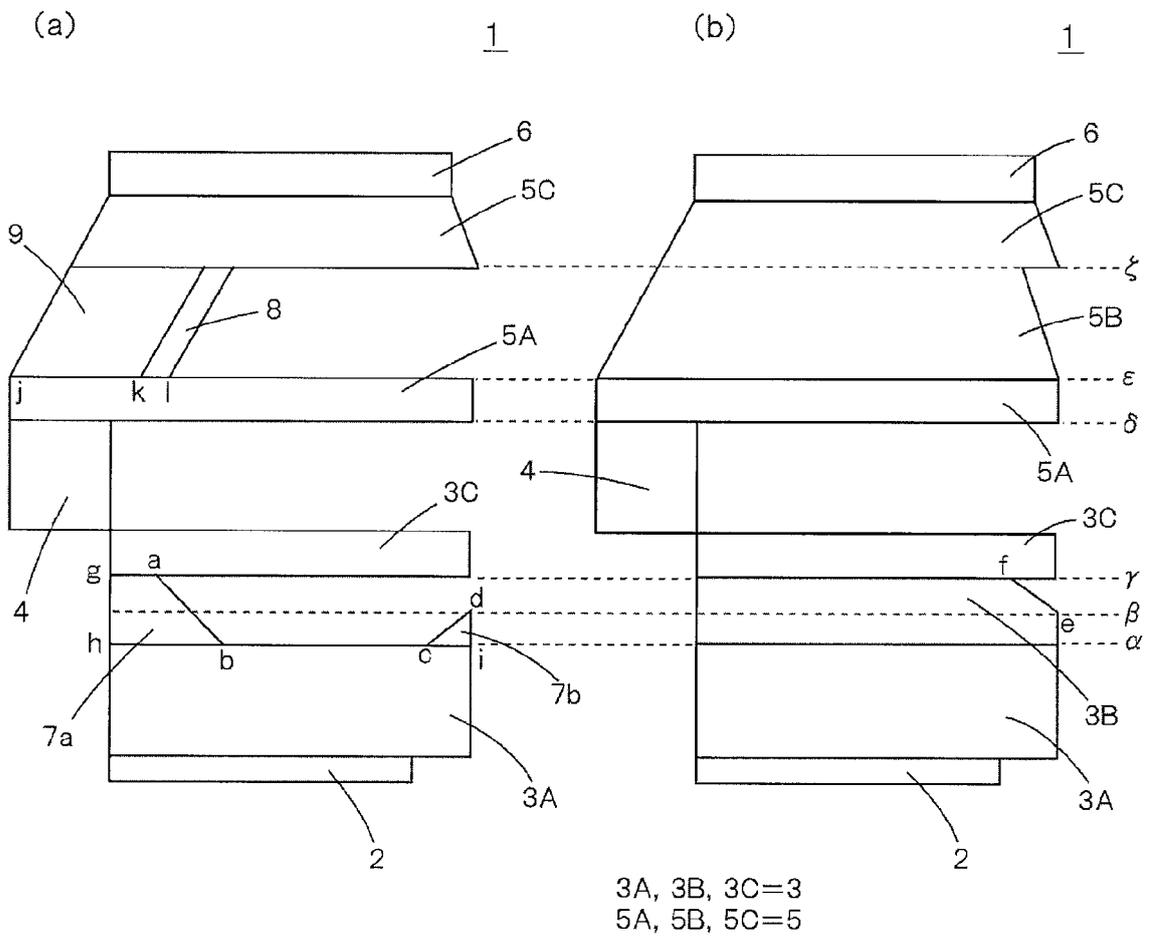
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Fig.1



7a, 7b = 3B
8, 9 = 5B

Fig. 2





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Application Number
EP 16 17 1173

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Munich		22 July 2016	Braun, Stefanie
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X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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