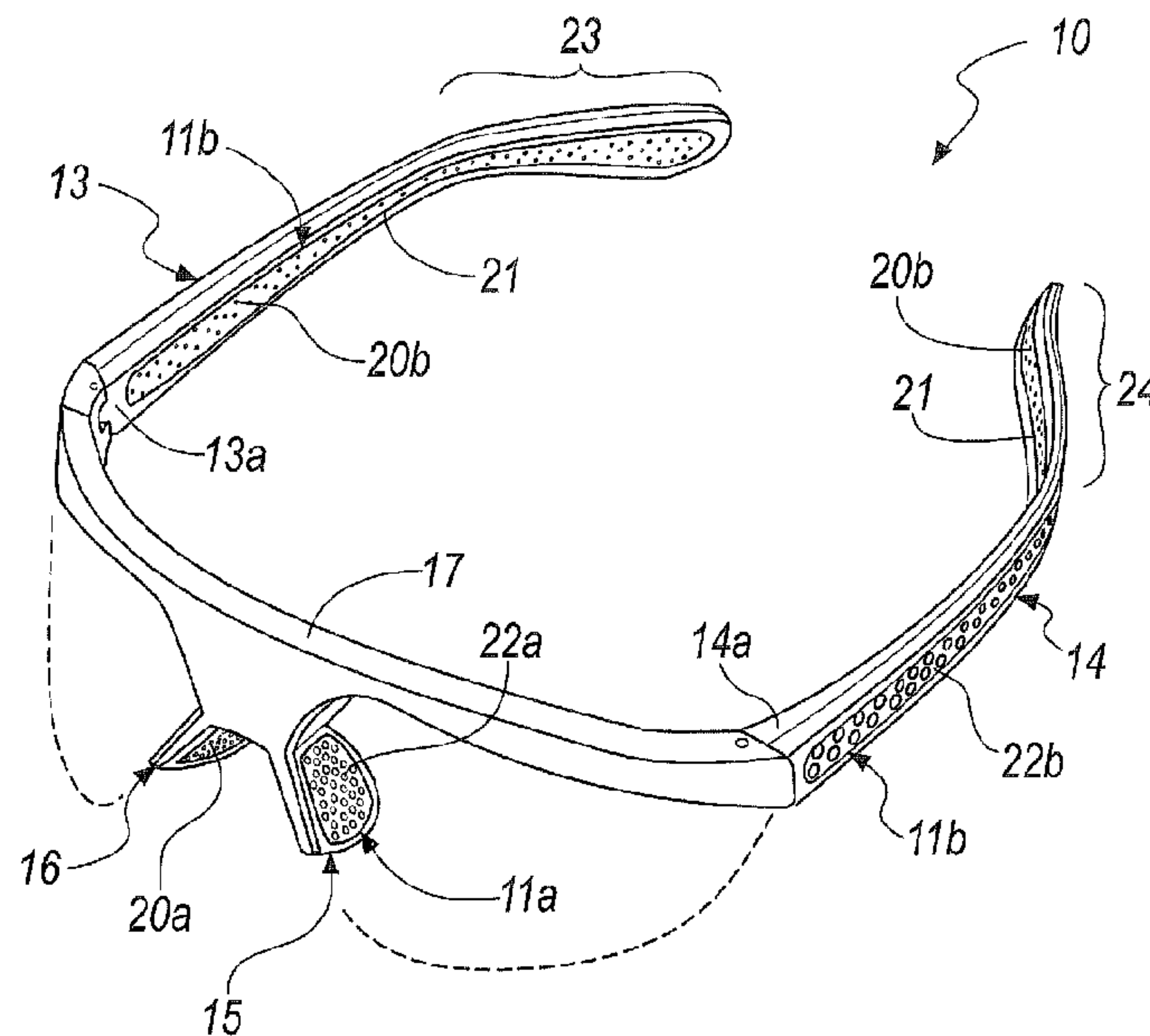




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(54) Titre : MONTURE DE LUNETTES, MASQUES A USAGE PROFESSIONNEL OU SPORTIF, ET SIMILAIRES
 (54) Title: FRAME FOR GLASSES, MASKS FOR PROFESSIONAL OR SPORTS USE, AND THE LIKE



(57) Abrégé/Abstract:

A frame (10, 100) for glasses, masks for professional or sports use, and the like, adapted to support at least one corrective and/or protective lens (101) in a position which during use is located in front of the ocular region of the user, the frame (10, 100) having at least one through opening (11a, 11b, 28a, 28b, 103a, 103b) which is open toward the skin of the user who is wearing it, at least one waterproof and vapor-permeable functional insert (12, 30, 104) being provided which is arranged so as to obstruct in a vapor-permeable manner the at least one opening (11a, 11b, 28a, 28b, 103a, 103b) in order to allow the vapor permeation of the skin of the user, preventing a return of condensation toward the skin.

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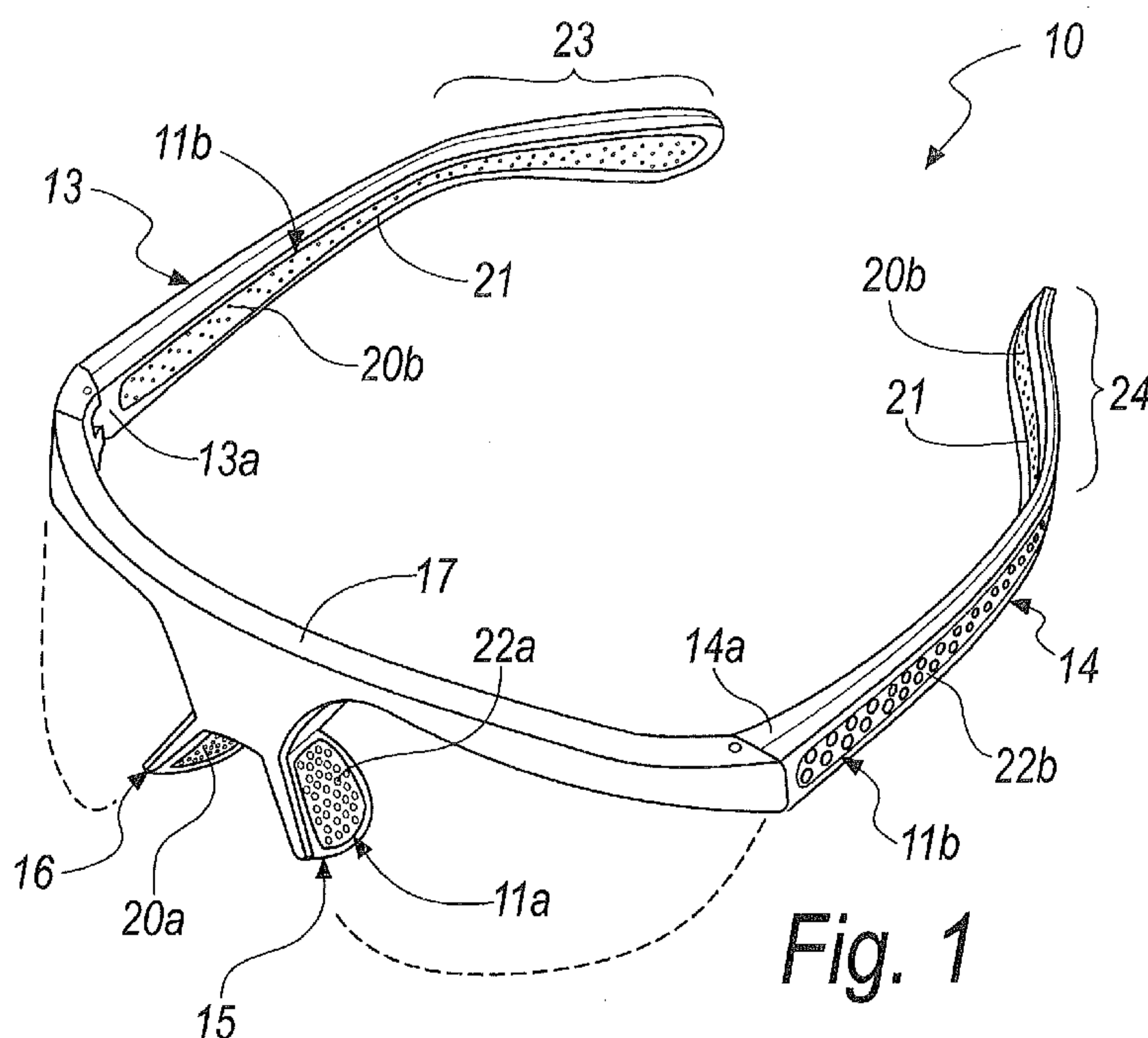
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(54) Title: FRAME FOR GLASSES, MASKS FOR PROFESSIONAL OR SPORTS USE, AND THE LIKE



(57) Abstract: A frame (10, 100) for glasses, masks for professional or sports use, and the like, adapted to support at least one corrective and/or protective lens (101) in a position which during use is located in front of the ocular region of the user, the frame (10, 100) having at least one through opening (11a, 11b, 28a, 28b, 103a, 103b) which is open toward the skin of the user who is wearing it, at least one waterproof and vapor-permeable functional insert (12, 30, 104) being provided which is arranged so as to obstruct in a vapor-permeable manner the at least one opening (11a, 11b, 28a, 28b, 103a, 103b) in order to allow the vapor permeation of the skin of the user, preventing a return of condensation toward the skin.

FRAME FOR GLASSES, MASKS FOR PROFESSIONAL OR SPORTS
USE, AND THE LIKE

Technical Field

The present invention relates to a frame for glasses, masks for
5 professional or sports use, and the like.

Background art

Currently, glasses are commonly used in a large number of
applications in order to improve the sight of the user, by correcting
imperfections due to refractive defects or shortcomings in ocular
10 functionality, to protect the eyes from the rays of the sun, to help to maintain
visibility, which might be compromised by atmospheric conditions, such as
rain or snow, or to protect the eyes from the work environment.

Generally, glasses and/or sunglasses are composed of a lens
supporting frame that comprises two earpieces, also known as temples,
15 which are connected in an articulated or flexible way to a front for
supporting the lenses, which is provided in one-piece frame models.

In three-part frame models, the earpieces are articulated or flexibly
connected to two corresponding end pieces, which are adapted to connect
with the lenses, which are interconnected by the bridge that supports the
20 nose pieces for resting on the nose of the user.

Moreover, protective masks are currently known which have a
supporting rimmed frame for a lens adapted to shield the ocular region of
the user from severe weather conditions, for example in masks for sports
use, or from the work environment.

25 An elastic strap is generally associated with the rimmed frame and is
adapted to hold the mask firmly in position, once it has been put on by the
user to shield the eye region.

Currently, protective mask models of the binocular type, i.e., that
have two distinct lenses instead of a single lens, are also known.

30 In particular, in the field of masks for sports use or work use, great

attention has always been paid to devising solutions aimed at increasing the phenomenon of ventilation, i.e., the circulation of air inside the mask, in order to prevent fogging of the lenses.

In the state of the art there are several inventions that have small
5 perforations or slots defined in the lenses or in the upper, lower or lateral portions of the frame, so that air circulates between the mask and the ocular region of the user who is wearing it, flowing over the inner face of the lens in order to reduce its likelihood of fogging.

For example, US6009564 and US5542130 disclose pluralities of
10 openings provided in the front and/or upper portion of a mask frame of the sports type or work type, which however can be obstructed easily by snow or sand during the use in hostile environmental or weather conditions.

Moreover, in case of rain, such openings allow the passage of water inside the mask, fully to the disadvantage of its convenience and
15 effectiveness of use.

Moreover, substantially all currently known frame types, both for eyeglasses and sunglasses, with earpieces and a front or in three parts, as well as rimmed frames for masks, suffer the drawback of substantially preventing vapor permeation of the skin in the regions where they make
20 contact with the skin of the user, particularly for the resting contact.

This drawback is all the more relevant based on the observation that the forehead and the regions adjacent to it are particularly rich in sweat glands.

Therefore, the very areas of the face that are covered by glasses or by
25 a mask are particularly relevant in the essential biological function of sweating, which therefore must be protected by ensuring correct vapor permeation in order to prevent discomfort to the user.

In fact, as is known to people who wear eyeglasses, sunglasses or a mask for sports use or for protection, a bothersome stagnation of sweat
30 originates in the regions of contact between the frame and the skin of the

user.

The sweat formed thereat, since its evaporation is hindered, indeed remains directly on the skin and condenses on the frame.

Such phenomenon is particularly conspicuous in goggles of the sports
5 or protective type; in fact, vapor permeation through goggles is almost completely prevented in them.

Moreover, if the frame is not properly cleaned from the sweat and from the greasy substances that it carries, deposits may form over time which are the ideal culture medium for the growth of colonies of pathogenic
10 microorganisms, such as fungi and bacteria, which multiply rapidly and can cause eye infections.

Disclosure of the invention

The aim of the present invention is to provide a frame for glasses, masks for professional use or sports use, and the like, that makes it possible
15 to overcome the drawbacks and limitations of conventional frames, in that it is vapor-permeable.

Within this aim, an object of the invention is to provide a frame that allows to prevent the stagnation on the skin of the user of condensation of sweat that has permeated through the skin.

20 Another object of the invention is to provide a frame that makes it possible to limit greatly, with respect to conventional frames, the risk of proliferation of harmful bacterial colonies on the skin of the user at the regions covered by the frame.

Another object of the invention is to devise vapor-permeable frames
25 that can be provided in different models for use in the field of eyeglasses or for protection against the sun or in the field of protective masks to be used in environments that are aggressive for the biological balance of the ocular region of the user, as well as for protection against wind, against cold or against intense thermal radiation, or for protection against free particles
30 such as grains of sand or sparks or the like.

This aim, as well as these and other objects that will become better apparent hereinafter are achieved by a frame for glasses, masks for professional or sports use, and the like, adapted to support at least one corrective and/or protective lens in a position which during use is located in front of the ocular region of the user, characterized in that it is provided with at least one through opening which is open toward the skin of the user who is wearing said frame, at least one waterproof and vapor-permeable functional insert being provided which is arranged so as to obstruct in a vapor-permeable way said at least one opening in order to allow the vapor permeation of the skin of the user, preventing a return of condensation toward the skin.

Brief description of the drawings

Further characteristics and advantages of the invention will become better apparent from the description of preferred but not exclusive embodiments of the frame according to the invention, illustrated by way of non-limiting example in the accompanying drawings, wherein:

Figure 1 is a perspective view of a frame according to the invention, in a first embodiment;

Figure 2 is an enlarged-scale exploded perspective view of a detail of the frame of Figure 1 according to the invention;

Figure 3 is an enlarged-scale sectional perspective view of a detail of a constructive variation of the frame according to the invention;

Figure 4 is a front view of a frame according to the invention, in a second embodiment;

Figure 5 is a side view of the frame of Figure 4 according to the invention;

Figure 6 is an exploded perspective view of a detail of the frame according to the invention, provided in said second embodiment.

Ways of carrying out the invention

With particular reference to the figures, the reference numeral 10

generally designates a frame for glasses which is adapted to support two corrective and/or protective lenses in a position which, during use, is located in front of the ocular region of the user, in a manner known per se.

According to the invention, the frame 10 has the peculiarity that it has
5 a plurality of through openings 11a and 11b, which are open toward the skin of the user who is wearing the frame 10, waterproof and vapor-permeable functional inserts being provided which are arranged so as to obstruct in a vapor-permeable way the corresponding openings 11a and 11b, so as to allow through them the vapor permeation of the skin of the user, at the same
10 time preventing a return of condensation toward the skin.

With reference to Figure 2, one of said functional inserts is shown schematically and is designated by the reference numeral 12.

In particular, the functional inserts are conveniently connected so as to provide a waterproof seal to the walls that delimit the openings 11a and
15 11b that they close.

For example, as illustrated by way of non-limiting example in Figures 1 and 2, earpieces 13 and 14 and nose pieces 15 and 16 are conveniently provided in two joined parts, between which the functional inserts are inserted, as described extensively hereinafter.

In particular, Figure 2 illustrates by way of non-limiting example the
20 structure of the first nose piece 15 of the nose pieces 15 and 16, the structure of the second nose piece 16 and of the earpieces 13 and 14 being substantially similar and therefore not being further described.

Advantageously, the first nose piece 15 is open through its thickness
25 in order to define a nasal vapor permeation opening 11a of openings 11a and 11b, and is conveniently defined by a first part 15a, which is jointly connected to a front 17 of the frame 10, and by a second part 15b, which is joined to the first part 15a, the functional insert 12 shaped so as to conform to them being interposed between them.

30 The parts 15a and 15b conveniently have an annular structure, being

provided with two corresponding windows 18 and 19 which, when the parts 15a and 15b are joined, cooperate to define the nasal vapor permeation opening 11a.

The first part 15a is conveniently joined to the second part 15b by
5 adhesive bonding, so that a peripheral region of the functional insert 12 is joined hermetically to the parts 15a and 15b, the functional insert 12 remaining mostly free from the adhesive used for bonding, in order to preserve its vapor permeability through windows 18 and 19 which, during use, define the nasal vapor permeation opening 11a.

10 In alternative embodiments of the invention, for example, the parts can be joined by high-frequency welding or overmolding of one over the other with a functional insert inserted between them.

Advantageously, absorbent and vapor-permeable elements 20a and 20b are provided which cover the inner face of the functional inserts, the
15 inner face being directed, during use, toward the skin of the user.

Absorbent and vapor-permeable elements 20a and 20b are conveniently capable of absorbing sweat and of preventing its retention by impregnation.

In particular, a first one 20a of the absorbent and vapor-permeable
20 elements 20a and 20b is shaped so as to be accommodated in the first one 18 of the windows 18 and 19, which is open through the first part 15a of the first nose piece 15.

In a substantially equivalent manner, second elements 20b of the absorbent and vapor-permeable elements 20a and 20b are shaped so as to be
25 accommodated in windows 21 which are extended longitudinally and are open in the inner parts 13a and 14a of the earpieces 13 and 14, in order to define an inner part of temporal vapor permeation openings 11b of the openings 11a and 11b.

More particularly, the absorbent and vapor-permeable elements 20a
30 and 20b are conveniently made of a material selected among

- felt,
- nonwoven fabric,
- mesh of polymeric material,
- microfiber,
- 5 – leather,
- and the like.

The frame 10 conveniently further comprises vapor-permeable and/or perforated covering elements 22a and 22b, which substantially cover the outer face of the functional inserts, such outer face being opposite with respect to the face directed toward the skin of the user who is wearing the frame 10.

In general, depending on the implementation requirements of a frame according to the invention, such frame comprises earpieces provided with transversely through openings, which openings are open through at least the free end portions, which free end portions are adapted to face and/or abut against the skin of the user, and are designated by way of non-limiting example by the reference numerals 23 and 24 in Figure 1.

In the frame 10, described herein by way of non-limiting example, the transverse through openings are conveniently provided by the temporal vapor permeation openings 11b.

Moreover, depending on the contingent requirements, the covering elements may have a mesh-like or grid-like structure.

In a constructive variation of a frame according to the invention, the frame can comprise nose pieces which are articulated so as to adapt to the nose of the user on which they are adapted to support the frame.

Figure 3 illustrates by way of non-limiting example an articulated nose piece according to a further embodiment, generally designated by the reference numeral 25.

The articulated nose piece 25 conveniently comprises an articulation portion 26 adapted to be articulated to the nasal part of a frame according to

the invention, in a manner which is known per se and therefore not further described.

Moreover, the nose piece 25 preferably comprises a framework 27 which is jointly connected to the articulation portion 26 and is provided with openings 28a and 28b which, during the use of the frame, connect to the surrounding environment, through the framework 27, the skin of the user on which the articulated nose piece 25 rests at a resting contact wall 29 of the framework 27, which is conveniently ergonomically shaped.

A waterproof and vapor-permeable functional insert, designated in Figure 3 by the reference numeral 30, advantageously covers first nasal vapor permeation openings 28a, of the openings 28a and 28b, which are open through the resting contact wall 29, closing them with a waterproof seal for example by perimetric adhesive bonding to the resting contact wall 29.

The functional insert 30 thus allows, through the first nasal vapor permeation openings 28a, the vapor permeation of the user's skin on which the nose piece 25 rests during use and at the same time prevents the return of condensation toward the skin.

Conveniently, an absorbent and vapor-permeable element is also provided, designated in Figure 3 by the reference numeral 31, which covers the functional insert 30 and is capable of absorbing sweat and preventing retention by impregnation.

Moreover, the framework 27 is conveniently made of polymeric material and advantageously has a box-like structure, which defines a vapor-permeable chamber delimited by the resting contact wall 29 and by a rear wall 33 of the framework 27, which conveniently has the second nasal vapor permeation openings 28b of the openings 28a and 28b.

Conveniently, the framework 27 is made of absorbent and vapor-permeable material, such as for example felt, nonwoven fabric and the like.

Preferably, the rear wall 33 is covered with a finishing element 34,

made of soft material such as for example silicone, which is conveniently provided with through holes in order to leave free the second nasal vapor permeation openings 28b.

In a constructive variation of the nose piece 25, not further described
5 herein, the waterproof and vapor-permeable functional insert can have a considerable thickness, such as to give it an independent resistance to the stresses that can be experienced during correct use of the frame that incorporates it, and thus lack the absorbent and vapor-permeable element.

In such constructive variation, the waterproof and vapor-permeable
10 functional insert is preferably made of a polymeric material that is extruded in a single layer with a substantial thickness or obtained by lamination of a plurality of superimposed layers, or again obtained by lamination of a plurality of superimposed layers with an additional insert provided between them in order to obtain a single cohesive element.

15 The polymeric material is advantageously selected among polytetrafluoroethylene, PTFE, polyurethane, PU, polyester, PES, polypropylene, PP, polyethylene, PE, and the like.

A functional insert with such characteristics can be obtained by using a single layer, for example made of PTFE material, with a thickness
20 preferably comprised between 0.1 mm and 3.0 mm, or a multilayer, for example made of expanded PTFE material, with a thickness preferably within the 0.1 mm - 5.0 mm range.

As an alternative, a sintered and porous polymeric composite material commonly known by the trade name POREX® can also be used
25 advantageously.

Depending on the contingent implementation requirements of the invention, different methods of construction of the nose piece 25 can be selected.

In particular, for example, the functional insert 30 is conveniently
30 hot-preformed in a provided mold, so as to make it conform to the

framework 27, to which it is subsequently associated, preferably by perimetric adhesive bonding.

As an alternative, in a further constructive method of the nose piece of a frame according to the invention, the framework of the nose piece is
5 shaped like a gondola and conveniently made of absorbent and vapor-permeable material.

In this construction method, the framework is made of vapor-permeable material, such as for example felt, and thus lacks the openings and the vapor permeation chamber, since their function, i.e., to allow the
10 passage of water vapor through the framework, is performed equivalently by the vapor-permeable structure of the framework.

The functional insert is conveniently overmolded while hot on the vapor-permeable framework, for example by arranging, in an appropriate hot mold, the framework and the functional insert, and by actuating the
15 mold, which thus makes the functional insert conform to the framework, joining them integrally.

With particular reference to Figures 4, 5 and 6, a frame 100 according to the invention, in a second embodiment, has a rimmed structure for supporting a lens 101 in order to define a mask 102.

20 According to the invention, the frame 100 is provided with through openings 103a and 103b which are open toward the skin of the user who is wearing it.

Waterproof and vapor-permeable functional inserts are arranged so as to obstruct in a vapor-permeable manner the openings 103a and 103b in
25 order to allow vapor permeation of the skin of the user, preventing a return of condensation toward the skin.

Advantageously, the functional inserts are connected so as to provide a waterproof seal to the walls that delimit openings 103a and 103b that they close.

30 Conveniently, the openings 103a and 103b comprise

- a nasal vapor permeation opening 103a, which is provided at a nasal part of the frame 100 and is designed to rest on the nose of the user and
- temporal vapor permeation openings 103b, which are provided at a temporal part of the frame 100, which is designed to face the temporal region of the user who is wearing it and/or to be rested thereon.

The temporal vapor permeation openings 103b are conveniently closed by a first functional insert 104 of the functional inserts, which is conveniently covered, on its face that is internal to the mask 102, by an absorbent and vapor-permeable element 105, such inner face being directed, during use, toward the skin of the user.

The absorbent and vapor-permeable element 105 is conveniently capable of absorbing sweat and of preventing retention by impregnation and is preferably made of a material selected among

- felt,
- nonwoven fabric,
- mesh of polymeric material,
- microfiber,
- leather,
- and the like.

Moreover, the frame 100 has advantageously the first functional insert 104 protected by a perforated or vapor-permeable covering element 106 in substantially equivalent constructive variations.

Conveniently, the covering element 106 substantially covers the outer face of the first functional insert 104, such outer face being opposite with respect to the face directed toward the skin of the user who is wearing the frame 100.

In the same way, which therefore is not described and illustrated further in the figures, a second functional insert of the functional elements is provided, which encloses the nasal vapor permeation opening 103a.

Advantageously, the second functional insert is covered, on its face that is internal to the mask 102, by an absorbent and vapor-permeable element, not shown in the accompanying figures, such inner face being directed, during use, toward the skin of the user, the absorbent and vapor-permeable element being conveniently capable of absorbing sweat and of preventing its retention by impregnation and being preferably made of a material selected among

- felt,
- nonwoven fabric,
- 10 – mesh of polymeric material,
- microfiber,
- leather,
- and the like.

Moreover, in Figures 4 and 5 the reference numeral 107 designates a covering element for the second functional insert, which is substantially similar to the covering element 106 and therefore is not further described.

In a constructive variation of the frame according to the invention, which is adapted to provide a mask, not further illustrated herein, the waterproof and vapor-permeable functional insert may have a considerable thickness, such as to give it an independent resistance to the stresses that can be experienced during correct use of the frame that incorporates it, and may thus lack the absorbent and vapor-permeable element.

Moreover, in further constructive variations, advantageously the frame according to the invention, which is adapted to define a mask, has the openings, sealed in a waterproof and vapor-permeable way by functional inserts, substantially at all the parts directly in contact with the skin of the user, particularly, on the entire contour of the frame adapted to be rested against the face of the user perimetrically to his ocular region, the functional inserts having preferably a considerable thickness, i.e., such as to give them

an independent resistance to the stresses that can be experienced during the correct use of the frame that incorporates them.

The terms waterproof and vapor-permeable designate the quality of the functional inserts of being impermeable to water, particularly to sweat,
5 in the liquid state, i.e., condensed, and permeable to water vapor.

In general, depending on the contingent requirements of execution of a frame according to the invention, the frame has at least one through opening which is open toward the skin of the user who is wearing it, at least one waterproof and vapor-permeable functional insert being provided which
10 is arranged so as to obstruct in a vapor-permeable manner the opening in order to allow vapor permeation of the skin of the user, preventing a return of condensation toward said skin.

In a substantially equivalent manner, the at least one opening may be replaced by at least one vapor-permeable region of the frame.

15 Advantageously, the functional inserts comprise, depending on the contingent requirements of execution of the invention, selectively among
– at least one waterproof and vapor-permeable membrane which is thin, i.e., for example has a thickness substantially comprised between 10 microns and 100 microns, and is made of polymeric material,
20 – at least one waterproof and vapor-permeable membrane which is thick, i.e., for example has a thickness substantially comprised between 0.1 mm and 5 mm, made of polymeric material, such thick membrane being selectively either a single body or multilayer and cohesive, and the extruded polymeric material being moreover selectively either expanded or not
25 expanded,
– at least one layer made of sintered and porous composite polymeric material, such for example the product commercially known as POREX®.

In particular, the polymeric material is advantageously selected among

30 – polytetrafluoroethylene, PTFE,

- polyurethane, PU,
- polyester, PES,
- polypropylene, PP,
- polyethylene, PE,
- 5 – and the like.

Depending on the contingent requirements of execution of the invention, the functional inserts comprise at least one layer made of such membrane, for example they may be made as a single body of said polymeric material, or may be made as a cohesive layering of a plurality of
10 layers of the membrane, or also may be made by one of the membranes, covered, for protection, by vapor-permeable layers, or, in a particularly preferred solution, the functional inserts may be made of polytetrafluoroethylene, PTFE,

- as a single body, which has a thickness advantageously comprised
15 between 0.1 mm and 3 mm, or
- layered, which has a thickness conveniently comprised between 0.1 mm and 5 mm.

Moreover, depending on the contingent requirements of execution of the invention, the functional inserts may comprise a plurality of layers made
20 of PTFE, or equivalent, with the interposition of a porous material that is permeable to water vapor, such as for example nonwoven fabrics, nets, meshes and other porous films, composed of polyolefins, nylon, polyester, aramid fibers or fluoropolymers.

In practice it has been found that the invention achieves the intended
25 aim and objects, by providing a frame for glasses, masks for professional or sports use, and the like, that makes it possible to overcome the drawbacks and limitations of conventional frames, in that it is vapor-permeable.

In particular, a frame according to the invention makes it possible to prevent the stagnation, on the skin of the user, of condensed sweat that has
30 permeated through the skin; in fact, sweat, in the form of vapor, passes

through the openings of the frame, permeating through the functional inserts that close them.

Even in the case of condensation of the sweat permeated through the functional inserts toward the outside of the frame, the inserts prevent its
5 return into contact with the skin because they are waterproof and are sealed in a waterproof manner to the frame.

A frame according to the invention, moreover, allows to limit greatly, with respect to conventional frames, the risk of proliferation of harmful bacterial colonies on the skin of the user at the regions covered by the
10 frame; in fact, it allows the vapor permeation of the sweat produced by the skin, preventing its stagnation and therefore the formation of seats of bacterial proliferation in contact with the skin.

Moreover, vapor-permeable frames according to the invention may be provided in the most disparate models in order to be suitable for the
15 contingent requirements of use; for example, they may be adapted to the use in the field of eyeglasses and/or sunglasses, being provided in a single piece, optionally in the shape known as "rimless", or in three pieces.

As an alternative, frames according to invention can be provided in order to form protective masks to be used in environments that are
20 aggressive for the biological balance of the ocular region of the user, such as for protection against wind, cold or against intense thermal radiations or for protection against free particles such as grains of sand or sparks or the like.

The invention thus conceived is susceptible of numerous
25 modifications and variations, all of which are within the scope of the appended claims; all the details may further be replaced with other technically equivalent elements.

In practice, the materials used, so long as they are compatible with the specific use, as well as the contingent shapes and dimensions, may be any
30 according to requirements and to the state of the art.

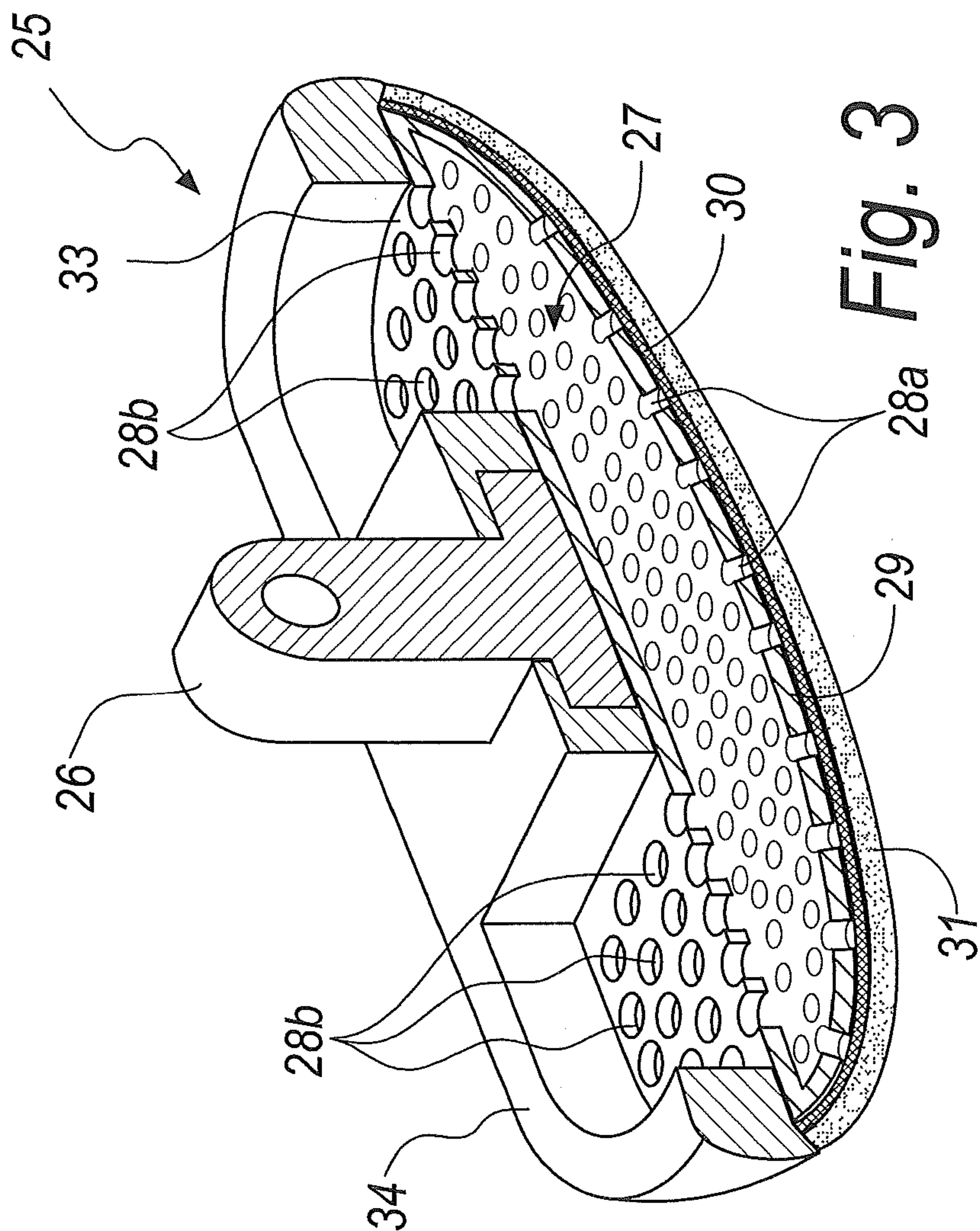
Where technical features mentioned in any claim are followed by reference signs, those reference signs have been included for the sole purpose of increasing the intelligibility of the claims and accordingly such reference signs do not have any limiting effect on the interpretation of each
5 element identified by way of example by such reference signs.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A frame for glasses or masks for professional or sports use adapted to support at least one corrective and/or protective lens in a position which, during use, is in front of an ocular region of a user who is wearing said frame, wherein it has at least one vapor-permeable region from the surrounding environment toward the skin of the user, at least one waterproof and vapor-permeable functional insert being provided which is arranged so as to seal in a waterproof and vapor-permeable manner said at least one vapor-permeable region in order to allow vapor permeation of the skin of the user, preventing a return of condensation toward the skin.
2. The frame according to claim 1, wherein the vapor-permeable region has at least one through opening which is open from the surrounding environment toward the skin of the user who is wearing said frame, at least one waterproof and vapor-permeable functional insert being provided which is arranged so as to obstruct in a vapor-permeable manner said at least one opening.
3. The frame according to claim 1 or 2, wherein said at least one functional insert comprises at least one layer of a membrane made of polymeric material that is
 - polytetrafluoroethylene, PTFE,
 - polyurethane, PU,
 - polyester, PES,
 - polypropylene, PP, or
 - polyethylene, PE.
4. The frame according to claim 1 or 2, wherein said at least one functional insert is connected so as to provide a waterproof seal to walls that delimit said at least one opening that said functional insert closes.

5. The frame according to any one of claims 1 to 4, wherein it comprises at least one absorbent and vapor-permeable element, which covers an inner face of said at least one functional insert, said inner face being directed, during use, toward the skin of the user, and said absorbent and vapor-permeable element being capable of absorbing sweat and preventing its retention by impregnation.
6. The frame according to claim 5, wherein said absorbent and vapor-permeable element is made of a material that is
 - felt,
 - nonwoven fabric,
 - mesh of polymeric material,
 - microfiber, or
 - leather.
7. The frame according to any one of claims 1 to 6, wherein it comprises at least one vapor permeable and/or perforated covering element, which substantially covers an outer face of said at least one functional insert, said outer face being opposite with respect to a face directed toward the skin of the user who is wearing said frame.
8. The frame according to any one of claims 1 to 7, wherein said at least one opening comprises at least one opening for nasal vapor permeation, which is provided at a nose part of said frame that is designed for resting on the nose of the user.
9. The frame according to any one of claims 1 to 8, wherein said at least one opening comprises at least one opening for temporal vapor permeation, which is provided at a temporal part of said frame, which is designed to face the temporal region of the user who is wearing said frame and/or to be rested thereon.
10. The frame according to any one of claims 1 to 9, wherein it comprises two earpieces for resting on the ears of the user, said at least one opening comprising openings that pass

transversely through said earpieces, said openings being open through at least free end portions of said earpieces and being adapted to face and/or abut against the skin of the user.



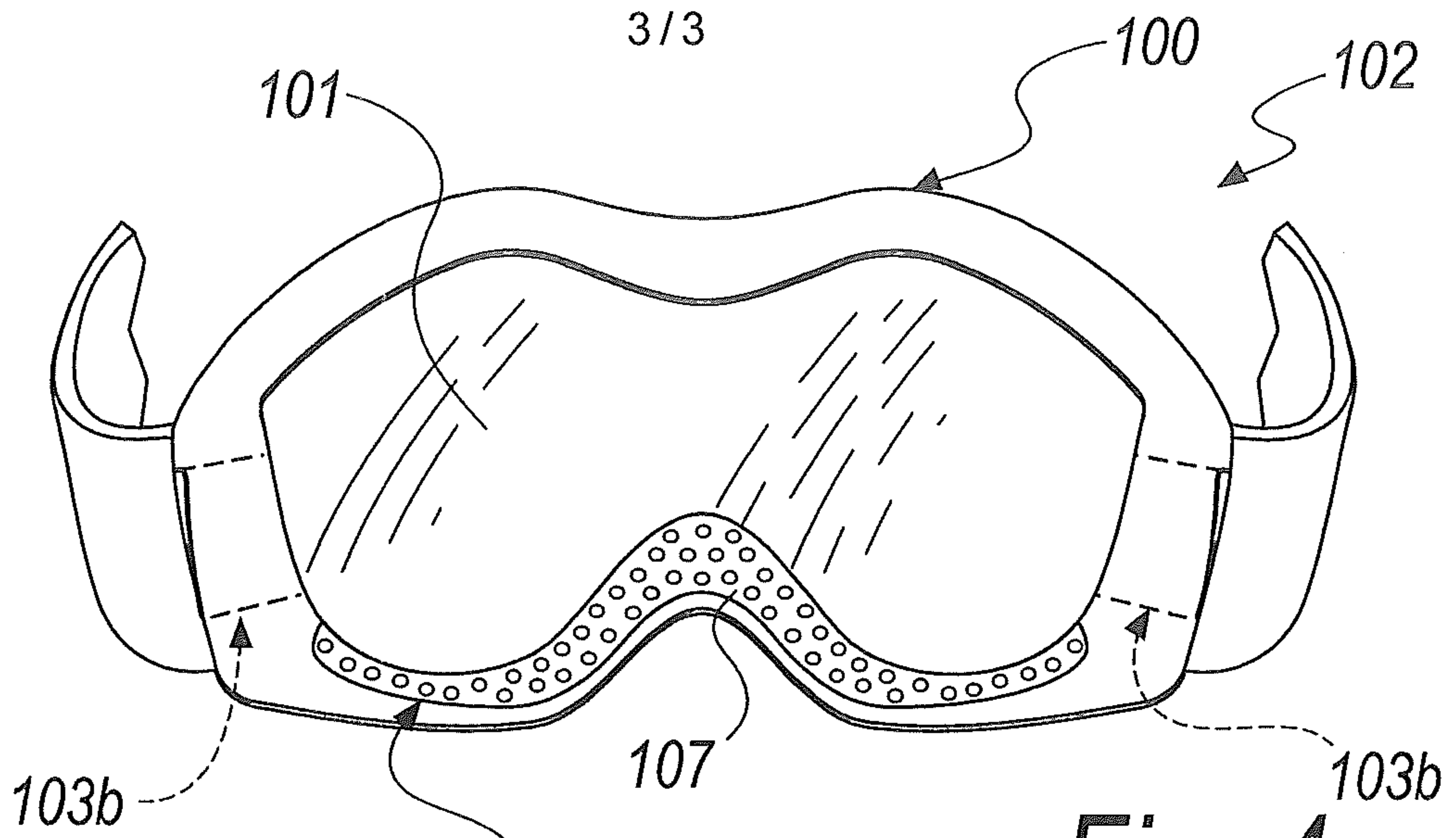


Fig. 4

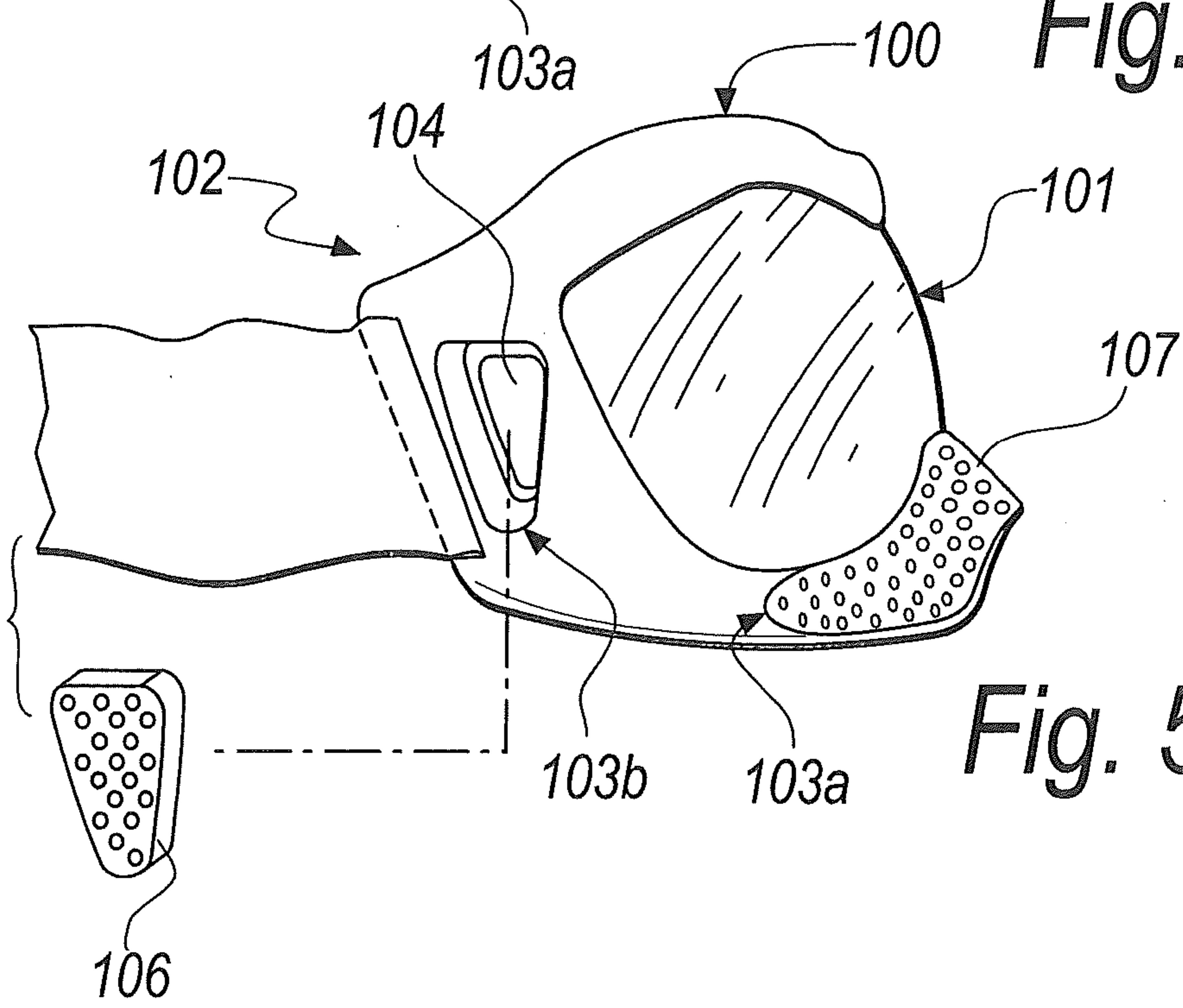


Fig. 5

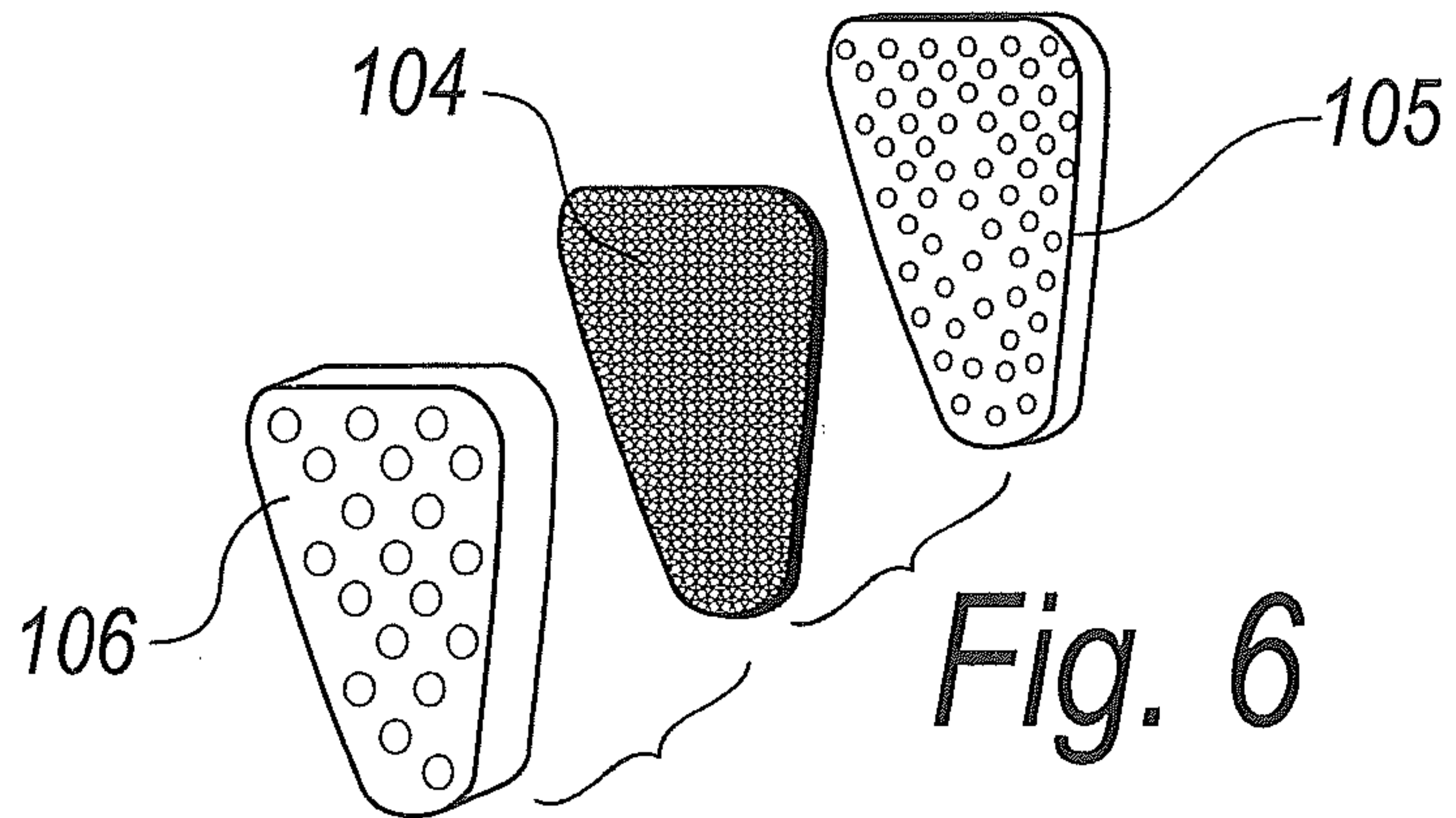


Fig. 6

