



(22) Date de dépôt/Filing Date: 1993/02/18

(41) Mise à la disp. pub./Open to Public Insp.: 1994/08/19

(45) Date de délivrance/Issue Date: 2005/04/19

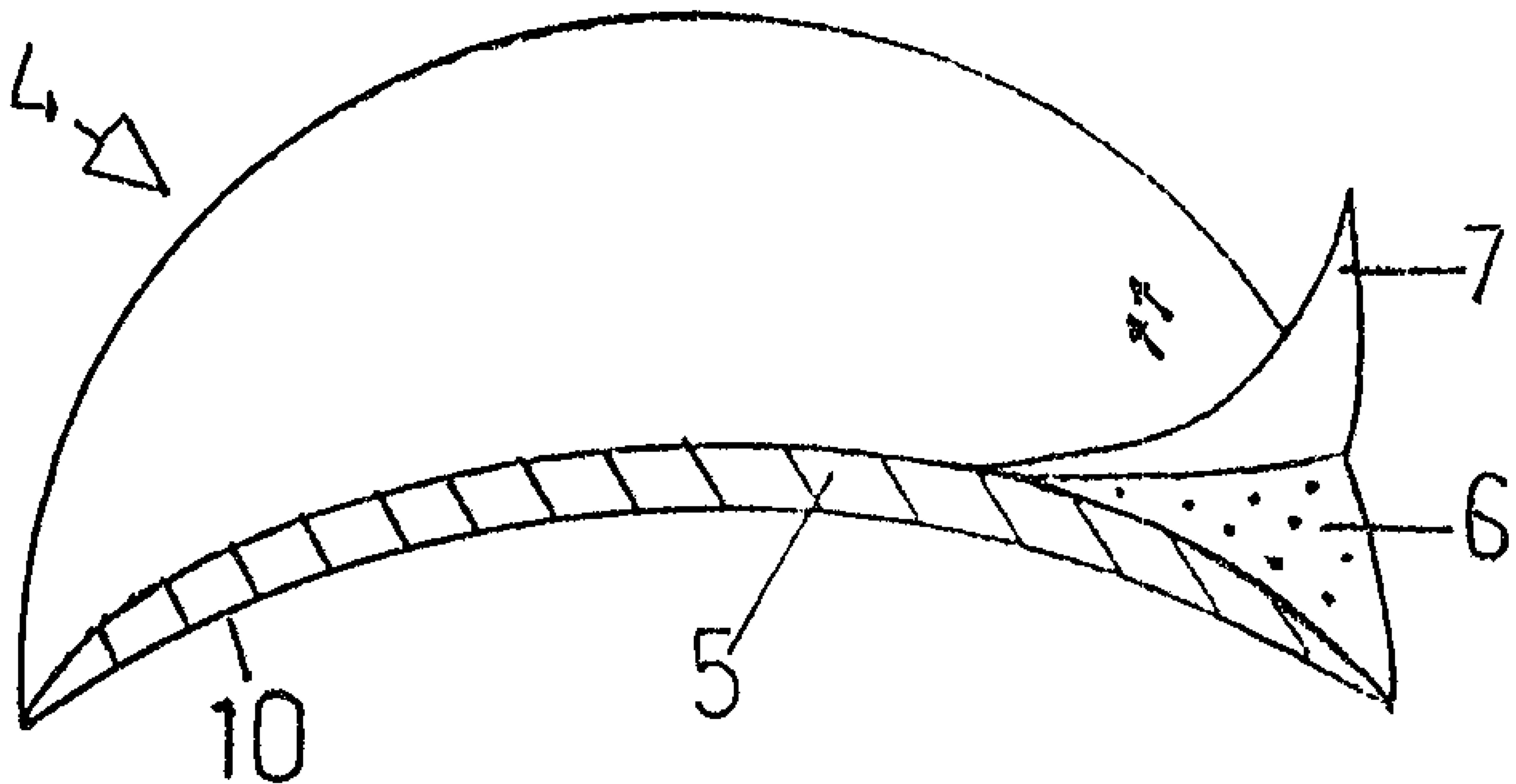
(51) Cl.Int.<sup>5</sup>/Int.Cl.<sup>5</sup> A41D 27/26

(72) Inventeur/Inventor:  
FRAZER, ELLA, CA

(73) Propriétaire/Owner:  
FRAZER, ELLA, CA

(54) Titre : EPAULIERE JETABLE A FIXATION INSTANTANEE

(54) Title: INSTANT, DISPOSABLE, SHOULDER PAD



(57) Abrégé/Abstract:

A disposable shoulder pad which can be attached directly to the inside shoulder area of a garment by means of an adhesive layer, thereby eliminating the need for sewing. The pad comprises a curved body with a layer of adhesive on the top (convex) side. A removable, protective cover is layered over the adhesive. The materials are low cost, biodegradable, paper products, allowing for economical disposal and replacement. The pad is expeditiously inserted and removed from a garment.



## ABSTRACT OF THE DISCLOSURE

A disposable shoulder pad which can be attached directly to the inside shoulder area of a garment by means of an adhesive layer, thereby eliminating the need for sewing. The pad comprises a curved body with a layer of adhesive on the top (convex) side. A removable, protective cover is layered over the adhesive. The materials are low cost, biodegradable, paper products, allowing for economical disposal and replacement. The pad is expeditiously inserted and removed from a garment.

---

**INSTANT, DISPOSABLE, SHOULDER PAD**

**1 The present invention relates to a shoulder pad which can be attached to the inner shoulder area of a garment without the need of sewing, such devices are commonly termed shoulder pads**

**Various types of shoulder pads are known. The most common type requires sewing into a garment. One of these is a hinged type and requires sewing , which is time consuming and inconvenient for the wearer. In order to overcome the need for sewing, several other types of shoulder pads have been developed, but these have other disadvantages. One type is a combination shoulder pad and cushion apparatus, which does not require**  
**10 sewing, but depends upon a tight bra strap to keep this device in place. This can be uncomfortable and restrictive in movement, and also requires the wearer to wear a bra. Another type has incorporated the shoulder pads into an under garment, which is also uncomfortable and restrictive, as well as being unsuitable for wearing under more revealing outer garments. One other type is a shoulder pad harness. This pad does not require sewing, a tight bra strap for support, or a separate under garment, but the shoulder pads in this type are attached to a harness of chest and shoulder straps, which is also uncomfortable and restrictive in movement for the wearer.**

1 All of the above pads are inconvenient, uncomfortable, and bulky, with no flexibility in thickness of the pad. Because of this, many are discarded and become garbage, having a detrimental effect upon the environment, since they are non-biodegradable.

It is desirable to have a shoulder pad which is convenient, expeditious, comfortable, flexible in thickness, and environmentally compatible. The present invention may be attached easily and instantly to a garment, is comfortable, flexible in thickness, and will not harm the environment.

Known prior U.S. patents which may be pertinent to this invention are listed  
10 as follows:

U.S. Patent No. 4,845,785 Allen Jul 11, 1989

U.S. Patent No. 4,945,576 Melton Aug 7, 1990

U.S. Patent No. 4,675,917 Valli Jun.30, 1987

U.S. Patent No. 4,894, 868 Christopher Jan. 23, 1990

The present invention consists of a main body comprised of a slightly padded paper product. It is preferably a curved D shape compatible with the wearer's shoulder curve, the straight side being the shoulder edge. Although double sided, or another type of adhesive, may be used, the preferred adhesive is bonded to the convex, or top, side and has a protective paper  
20 covering. The cover is peeled off before insertion of pad. The pad will be

held securely until easy removal. This adhesive is known and may partially cover the top side, although a complete layer is preferable.

In another aspect of the invention, the pad is curved to conform to the shape of the shoulder, holding the garment in the desired position.

Another aspect is the adaptability of the pad. Since the depth or thickness is slight, less than 4 cm's, one pad may be used for each shoulder for lightweight garments, such as T shirts, or two or more pads may be attached to each other providing a thicker pad for heavier garments. The size of the surface area should be compatible with the shoulder area and may be produced in various sizes.

In a further embodiment of the invention, the materials used are bio-degradable or recyclable and will not harm the environment.

A pad of this invention is preferably made with a plurality of soft paper sheets resulting in a lightweight padded shape. However, other disposable materials may be used. Quilting may also be used to strengthen and enhance the aesthetic value

1 The invention, as exemplified by a preferred embodiment, is described with reference to the drawings in which:

Fig. 1 is a perspective view of an embodiment of a shoulder pad of the invention.

Fig. 2 is a frontal view of the pad shown in Fig. 1.

Fig. 3 is a frontal view of two pads which may be attached to each other.

Referring to the drawings, the embodiment of the invention shown, a shoulder pad 4 comprises a main body 5. The body has a bonded layer of adhesive 6. The adhesive has protective covering 7. As may be seen in

10 Fig. 1.

The frontal view as shown in Fig. 2 illustrates the curved D shape of main body, the straight edge being the front. This further illustrates the adhesive 6 and covering 7 on the convex, or top, side. The slight depth of the body may also be seen. Cover 7 is peeled off and the pad is placed inside garment shoulder with straight edge 10 at shoulder edge. When pressed lightly in place, the pad is held securely until it is removed by gently pulling away from garment.

Fig. 3 illustrates the positioning of two pads prior to combining: cover 7 is removed from lower pad to allow adhesion to concave, or under, side of pad. Covering is then removed from upper pad allowing attached bodies to adhere to garment.

Although only a single embodiment of the present invention has been described and illustrated, the present invention is not limited to the features of this embodiment, but includes all variations and modifications within the scope of the claims.

10

THE EMBODIMENTS OF THE INVENTION IN WHICH AN  
EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED  
AS FOLLOWS:

1. A device for shaping garment shoulders, comprising: a body which attaches directly to the inside of a shoulder area of a garment with means of an adhesive.
  2. The device as claimed in claim 1, wherein said adhesive is an adhesive layer being part of a top side of said body.
  3. The device as claimed in claim 2, wherein the body comprises a removable protective cover layered over said adhesive layer.
  4. A device for shaping garment shoulders as claimed in claim 2, wherein the body is a D shape, looking towards the top side, wherein said D shape conforms to a wearer's shoulder and said shoulder area of garment, wherein a concave side conforms with said wearer's shoulder and a convex side conforms with the inside of the shoulder area of garment, wherein the lower concave side and the upper convex side join together at their free edges.
  5. A device for shaping garment shoulders as claimed in claim 4, wherein the body is the D shape, looking towards the top side, wherein a
-

- transverse center line is formed between a mid-point on the straight side of said D and a mid-point on the curved side of said D, wherein the shape is symmetrical around the centre line, wherein said D shape is curved in the convex shape to conform to said wearer's shoulder area with the said curved side of the D aligned with the wearer's lateral shoulder edge, curving from the front side of the wearer's shoulder to the back side of shoulder area, wherein the said transverse center line is aligned with the wearer's shoulder area crest and said line extends from wearer's shoulder edge to a point adjacent to the wearer's collar bone.
6. A device for shaping garment shoulders as claimed in claim 4, wherein the body is the D shape, wherein the D shaped area of the body is such that it covers the shoulder area.
  7. A device for shaping garment shoulders as claimed in claim 4, wherein the body measurement between said concave and said convex layers of the body does not exceed four centimeters.
  8. A device for shaping garment shoulders as claimed in claim 7, wherein two or more bodies may be stacked and attached to one another, wherein the adhesive layer on the top convex side of one pad attaches to the bottom concave side of an other pad.

9. A device for shaping garment shoulders as claimed in claim 1, wherein the body is constructed to accommodate economical disposal and replacement of said body.
10. A device for shaping garment shoulders as claimed in claim 9, wherein the body is constructed of biodegradable material.
11. A device for shaping garment shoulders with a body comprising: A body accommodating economical disposal and replacement, which is biodegradable material, which is D shaped looking towards the top side, with a top side being convex and a bottom side being concave, conforming in shape to wearer's shoulder area, with an adhesive layer for attachment to inside shoulder area of garment, with adjustable thickness with stacking and attaching two or more bodies where the adhesive layer on the convex side of a lower pad attaches to the concave side of a top pad.
12. A device for shaping garment shoulders as claimed in claim 11, wherein the body with said adhesive layer is an integral entity being part of the top side of said body.
13. A device for shaping garment shoulders as claimed in claim 3, wherein the cover for covering the surface of the adhesive conforms in size and shape to said body.
14. A device for shaping garment shoulders as claimed in claim 1, wherein said adhesive is on a layer which is separate from said body.

15. A device for shaping garment shoulders as claimed in claim 14,  
wherein the adhesive layer exists on both sides of a paper carrier,  
allowing one side for attachment to said body and the other side for  
attachment to garment.
16. A device for shaping garment shoulders as claimed in claim 11,  
wherein the body is constructed of a paper product material.
17. A device for shaping garment shoulders as claimed in claim 15,  
wherein the body is constructed of a quilted structure comprising a  
paper sheet layer placed on each side of a means for padding.
18. A device for shaping garment shoulders as claimed in claim 3, wherein  
the cover for covering the surface of the adhesive is constructed of a  
paper product material.
19. A shoulder pad comprising:
- A D-shaped, padded and quilted, biodegradable, accommodating  
economical disposal and replacement, paper product body which attaches  
to the inside of the shoulder area of a garment by means of an adhesive  
layer on the convex side of the pad, a removable protective cover is on

top of said adhesive layer, wherein said adhesive is on a layer which is separate from said body, with said adhesive on both sides of a paper carrier, said pads are no more than four centimeters in thickness and have adjustable thickness by means of stacking and attaching two or more pads, where the adhesive layer on the convex side of a bottom pad attaches to the concave side of a top pad, said pads are D shaped with a transverse center line between a mid-point of the straight side of the D and a mid-point of the curved side of said D shape, with both sides of said pad curved in a convex shape from opposite sides of center line and extending equally from the center line, the curved straight side of the D being aligned with a lateral edge of the wearer's shoulder and said mid-point of the curved line of the D adjacent to the wearer's collar bone, with said transverse center line aligned with the wearer's shoulder crest, said convex shape of the body curves from the wearer's front shoulder area to the wearer's back shoulder area, said body conforms in size and shape to the wearer's shoulder area between the lateral area shoulder edge and an area adjacent to the wearer's collar bone.

FIG. 1

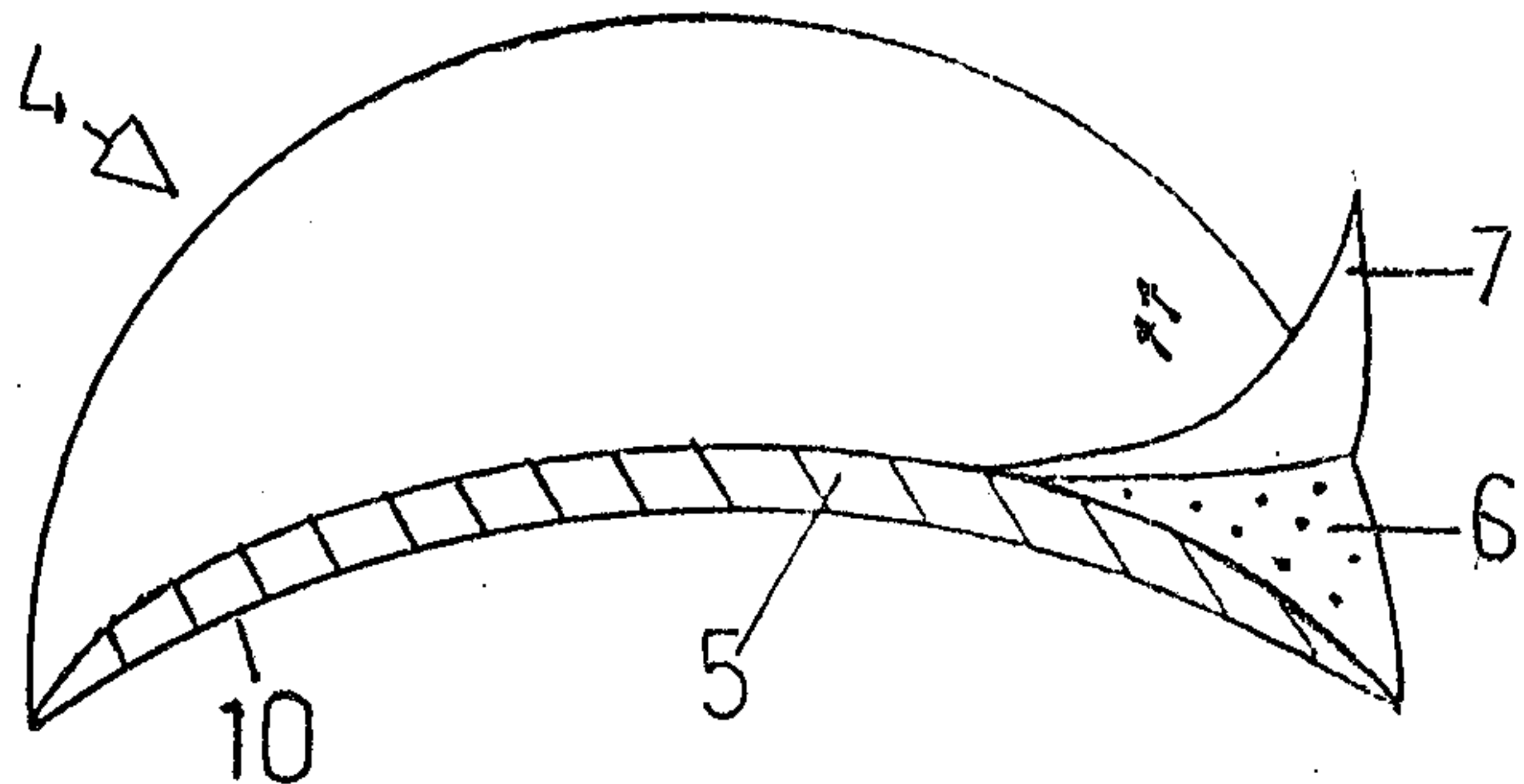


FIG. 2

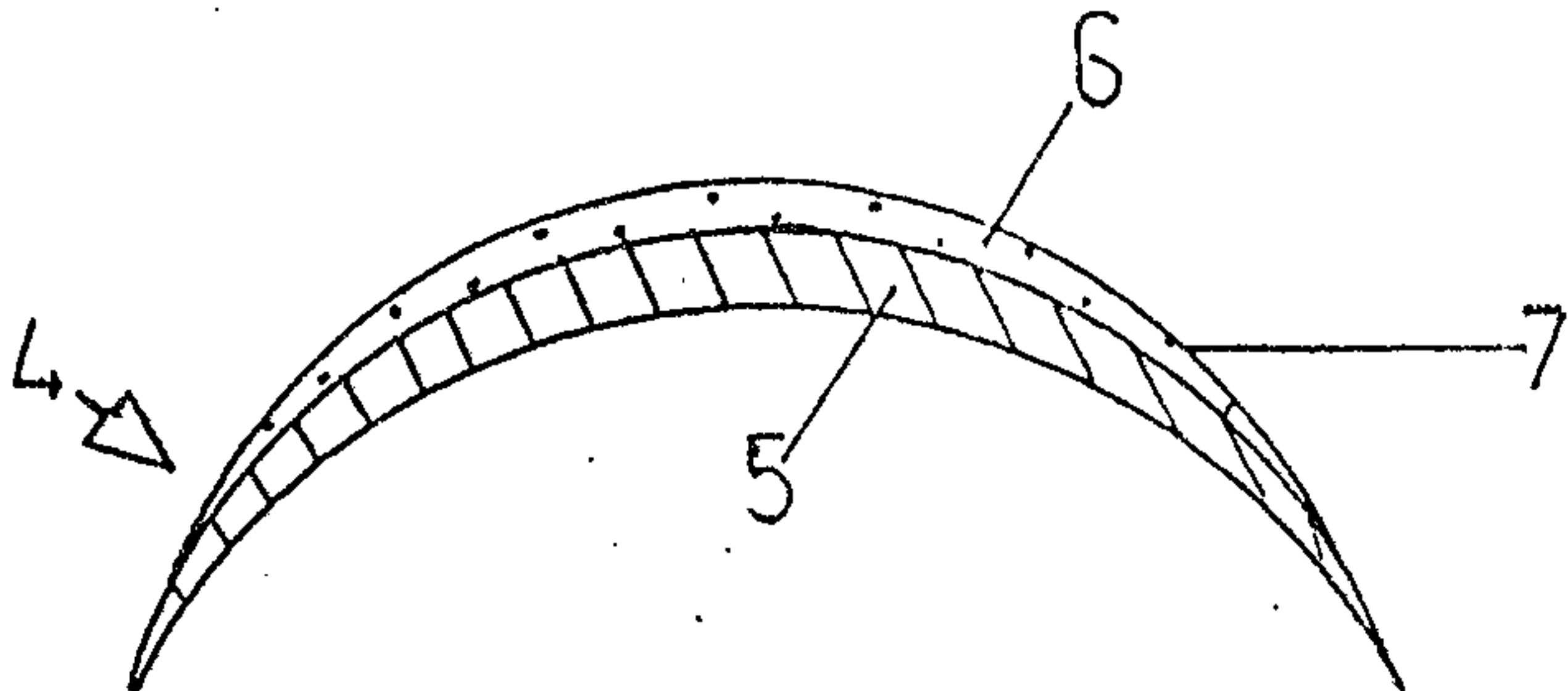
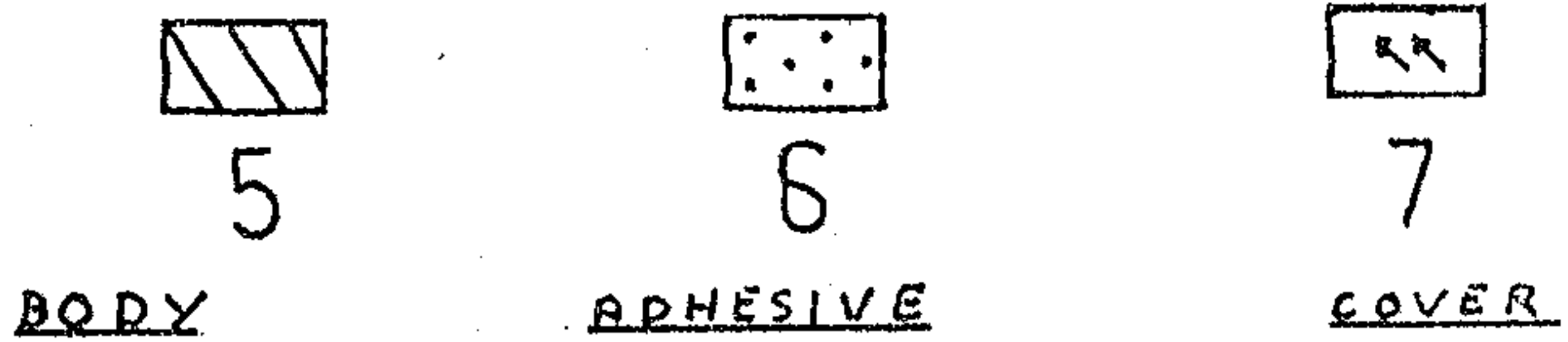
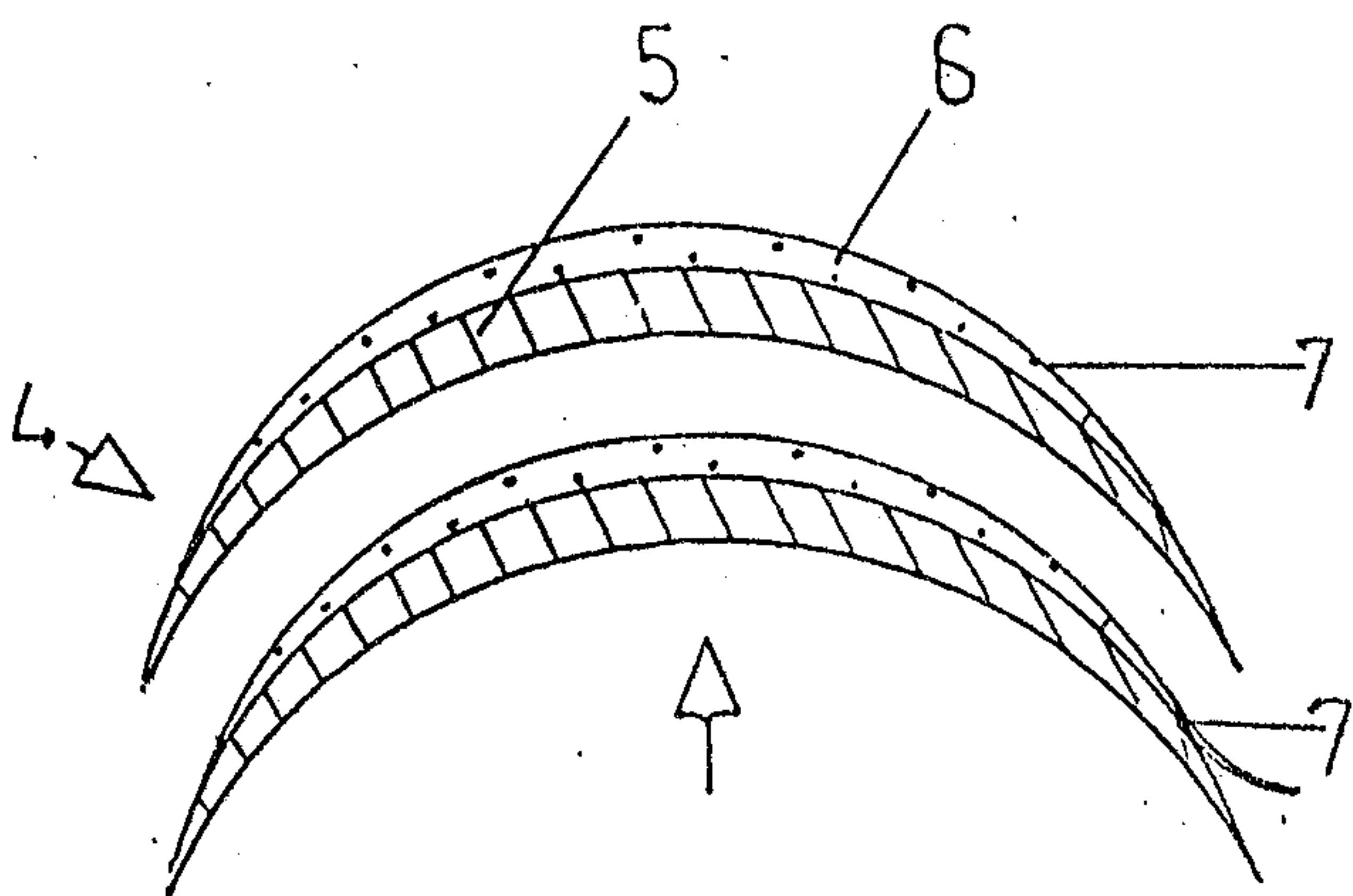


FIG. 3



*Wm. A. ...*

