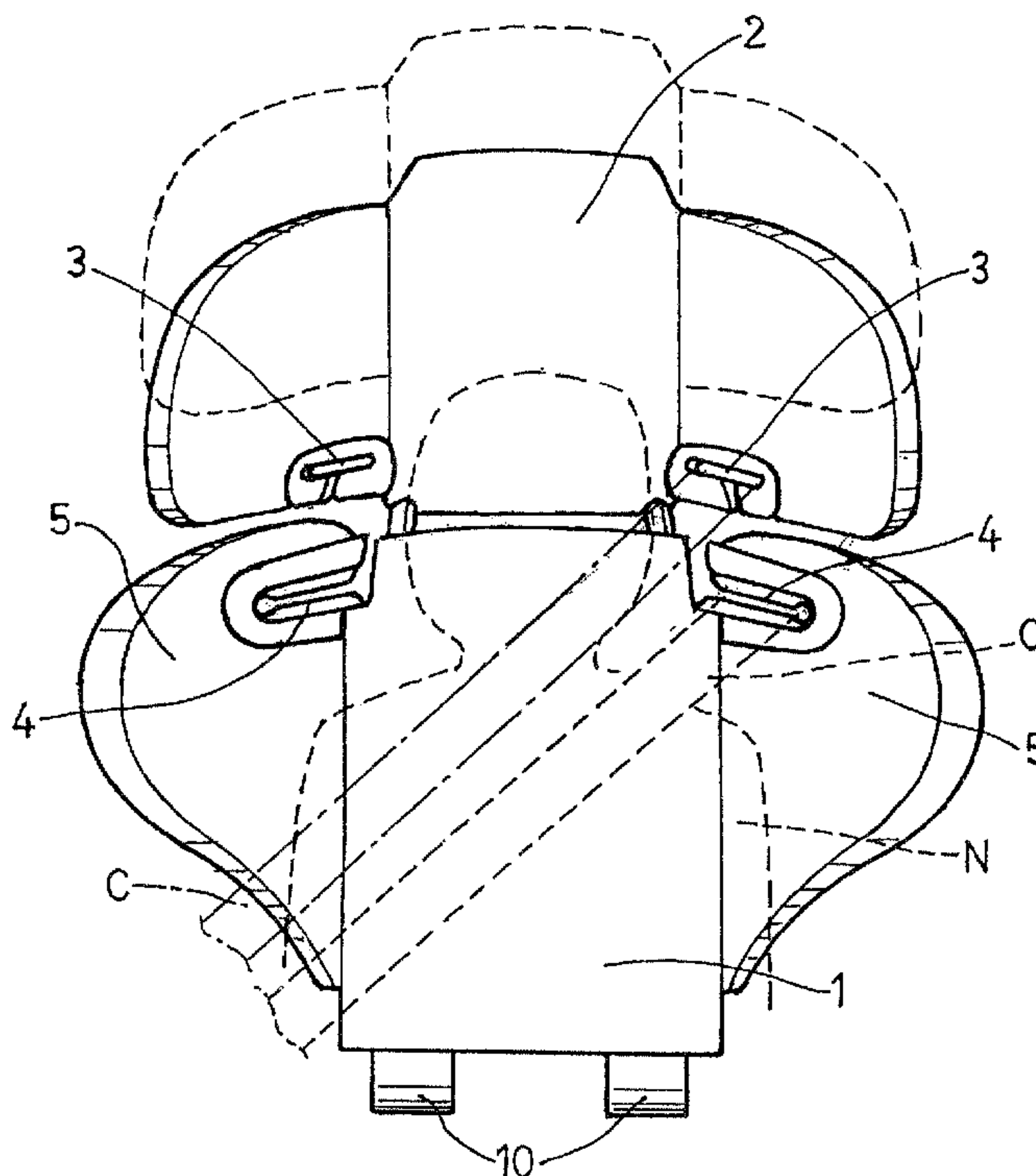




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(54) Title: A BACKREST WITH HEADREST FOR INFANT SEATS TO BE USED IN MOTORCARS



(57) Abrégé/Abstract:

The headrest (2) is liftable, comprises wings (11) and (12) and is provided with passages (3) for the belting (C) of the motorcar's safety belt. The backrest (1) does also characteristically comprise passages (4) for the belting (C) of the motorcar's safety belt, these latter passages because of the fact of being positioned in a lower position as compared with those of the headrest (2) being provided to be used when the child is of a short size so that it can thus be properly held back by the safety belt. A characteristic feature also lies in the fact that the wings (11) and (12) are fitted in a linked connection to the sides of the headrest (2), this latter having a mechanism (13, 14, 15 and 18) linking them to each other and locking them thus selectively setting them at a given angle with respect to the headrest (2).

ABSTRACT

A backrest with headrest for infant seats to be used in motorcars.

The headrest (2) is liftable, comprises wings (11) and (12) and is provided with passages (3) for the belting (C) of the motorcar's safety belt. The backrest (1) does also characteristically comprise passages (4) for the belting (C) of the motorcar's safety belt, these latter passages because of the fact of being positioned in a lower position as compared with those of the headrest (2) being provided to be used when the child is of a short size so that it can thus be properly held back by the safety belt. A characteristic feature also lies in the fact that the wings (11) and (12) are fitted in a linked connection to the sides of the headrest (2), this latter having a mechanism (13, 14, 15 and 18) linking them to each other and locking them thus selectively setting them at a given angle with respect to the headrest (2).

**A backrest with headrest for infant seats to be used  
in motorcars.**

BACKGROUND OF THE INVENTION

5           Several types of seats are already in existence  
which are designed for infants and for their safety are  
provided to be generally installed on the back seats of  
motorcars.

10           Some of these infant seats comprise a backrest being  
provided with a headrest, said seats being designed for  
rather young children of 1 to 5 years of age, for  
example.

15           In some of said seats the headrest forms an  
independent part being provided to be fitted to the  
backrest in an upwardly shiftable arrangement so as to  
thus be adapted to the infant's size, and in this case  
the seats can be used for children of up to some 8 years  
of age.

20           When the child is very young, because of the fact  
that the passages for the belting of the safety belt are  
provided in the headrest said belting extends along the  
child's head and is hence not properly arranged as  
regards the child's safety, this latter besides being in  
an uncomfortable situation.

25           In this kind of infant seats the wings are solid  
with the headrest and are arranged at a given angle so  
that when the child is very young they are too distant  
for the protection of the child's head, whereas when the  
child is older the wings are too close to the child's  
30           face and are hence a source of discomfort for it.

SUMMARY OF THE INVENTION

The backrest with headrest for infant seats being  
the object of this invention has been devised in order to  
solve these problems.

A characteristic feature of this backrest lies in its including passages for the belting of the motorcar's safety belt, so that, because of the fact that they are positioned in a lower position as compared with those of the headrest, the belting does in this case properly extend from the child's shoulder towards its chest, the child thus being perfectly held back and comfortably installed as well.

As the child grows up the passages being provided for the belting of the safety belt in the headrest will be then used.

The above-mentioned passages being provided in the backrest for the belting of the motorcar's safety belt are located in the upper portion of complementary side members at their connection with the backrest and comprise each a grip being apt to hold said belting in the corresponding passage during the use of the safety belt.

As for the headrest, it comprises the wings being fitted to its sides in a linked connection and has a mechanism linking them to each other and locking them thus selectively setting them at a given angle with respect to the headrest in accordance with the size of the child's head as befits its effective protection and comfort.

Said mechanism is installed in a transversal arrangement in the inside of the headrest and comprises at one of its ends a control knob projecting to the outside through the back side of one of the wings.

These and other characteristics will be best made apparent by the following detailed description whose understanding will be made easier by the accompanying two sheets of drawings showing a practical embodiment being cited only by way of example not limiting the scope of the present invention.

## DESCRIPTION OF THE DRAWINGS

In the drawings:

Fig. 1 illustrates in an elevational view the backrest with headrest for infant seats being the object  
5 of the invention;

Figs. 2 and 3 are each a close view showing the grip being provided at each of the passages being provided in the backrest for the belting of the motorcar's safety belt, said grip respectively being in a passive and in an  
10 active position;

Fig. 4 shows in an elevational view the mechanism mutually linking the wings and locking them at different angles with respect to the headrest; and

Fig. 5 represents in a perspective view a portion of  
15 the headrest showing the control knob of the mechanism corresponding to Fig. 4.

## DETAILED DESCRIPTION

According to the drawings the backrest (1) comprises a liftable headrest (2) being provided with passages (3)  
20 for the belting (C) of the motorcar's safety belt.

The backrest (1) does also comprise passages (4) for said belting (C), these latter passages being provided to be used when the child (N) is of short size in order to thus have the safety belt properly holding it back.

25 The passages (4) being provided in the backrest (1) for the belting (C) are located in the upper portion of complementary side members (5) at their connection with the backrest (1).

Said passages (4) comprise each a grip (F) being apt  
30 to hold the belting (C) in the corresponding passage (4) during the use of the safety belt, said grips (F) comprising each an actuating lever (6) being rotatably fitted by means of a pin (7) to each of the complementary side members (5) of the backrest, said lever (6) having  
35 an active portion (8) forming a cam and thus acting on a

resilient branch (9) being one of the two that make up each of the passages (4).

Numeral (10) denotes the connecting links being provided to removably and in a linked connection fit the  
5 backrest (1) to the seat (not shown).

The headrest (2) is vertically and slidably fitted onto the backrest (1) and does laterally comprise two wings (11 and 12).

Said wings (11) and (12) are connected in a linked  
10 connection through connecting links (13) (Fig. 4) to pins (14) being each vertically solid with a nut member (15) being threadingly engaged with the respective threaded end (16), (17) of a spindle (18) being transversally arranged in the inside of the headrest (2).

15 The assembly being made up of the connecting links (13), the pins (14), the nut members (15) and the spindle (18) with its threaded ends makes up the mechanism linking the wings (11) and (12) to each other and locking them to thus have them selectively forming a given angle  
20 with respect to the headrest (2).

This mechanism comprises a control knob (19) being solid with one of the ends of the spindle (18) and projecting to the outside through the back side of the wing (11).

25 The threads being provided at the ends (16) and (17) of the spindle (18) have been cut as per opposite hands so that when operating the control knob (19) by rotating it in one direction or in the opposite one the two wings can be adjustably and simultaneously closed in or spread  
30 apart with respect to the headrest and can thus be set at a bigger or smaller aperture between them.

The invention can within its essentiality be put into practice in other embodiments only in detail differing from the one having been described above only

by way of example, said other embodiments also falling within the scope of the protection being claimed.

CLAIMS

1. A backrest with headrest for infant seats to be used in motorcars, the headrest (2) being liftable, comprising wings (11) and (12) and being provided with passages (3) for the belting (C) of the motorcar's safety belt, characterised in that the backrest (1) does also comprise passages (4) for the belting (C) of the motorcar's safety belt, these latter passages because of the fact of being positioned in a lower position as compared with those of the headrest (2) being provided to be used when the child is of a short size so that it can thus be properly held back by the safety belt.

2. A backrest with headrest for infant seats to be used in motorcars as per claim 1, characterised in that the passages (4) being provided in the backrest (1) for the belting (C) of the motorcar's safety belt are located in the upper portion of complementary side members (5) at their connection with the backrest (1).

3. A backrest with headrest for infant seats to be used in motorcars as per claim 1, characterised in that the passages (4) being provided in the backrest (1) for the belting (C) of the motorcar's safety belt comprise each a grip (F) being apt to hold the belting (C) in the corresponding passage (4) during the use of the safety belt.

4. A backrest with headrest for infant seats to be used in motorcars as per claim 1, characterised in that the wings (11) and (12) are fitted in a linked connection to the sides of the headrest (2), this latter having a mechanism linking them to each other and locking them thus selectively setting them at a given angle with respect to the headrest (2).

5. A backrest with headrest for infant seats to be used in motorcars as per claim 4, characterised in that

said mechanism is installed in a transversal arrangement in the inside of the headrest (2) and comprises at one of its ends a control knob (19) projecting to the outside through the back side of one (11) of the wings.

5           6. A backrest with headrest for infant seats to be used in motorcars as per claims 4 and 5, characterised in that the mechanism linking the wings (11) and (12) to each other comprises a spindle (18) being arranged in a transversal arrangement in the inside of the headrest (2)  
10 and reaching with its ends (16) and (17) the wings (11) and (12), said spindle there having at each of said ends a respective thread, said threads being cut as per mutually opposite hands and being threadingly engaged with respective nut members (15) being each linked to the  
15 corresponding wing (11) and (12).

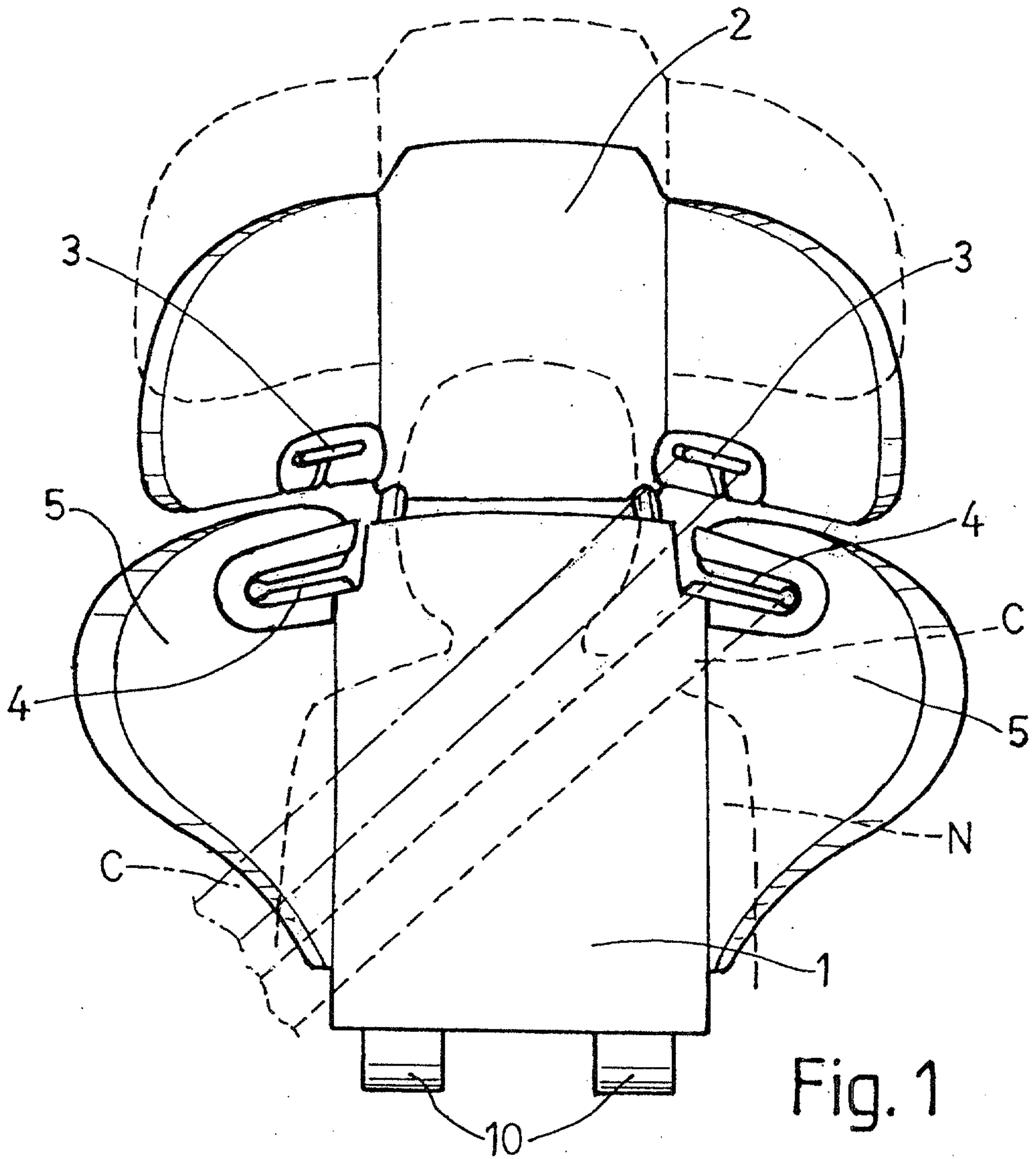


Fig. 1

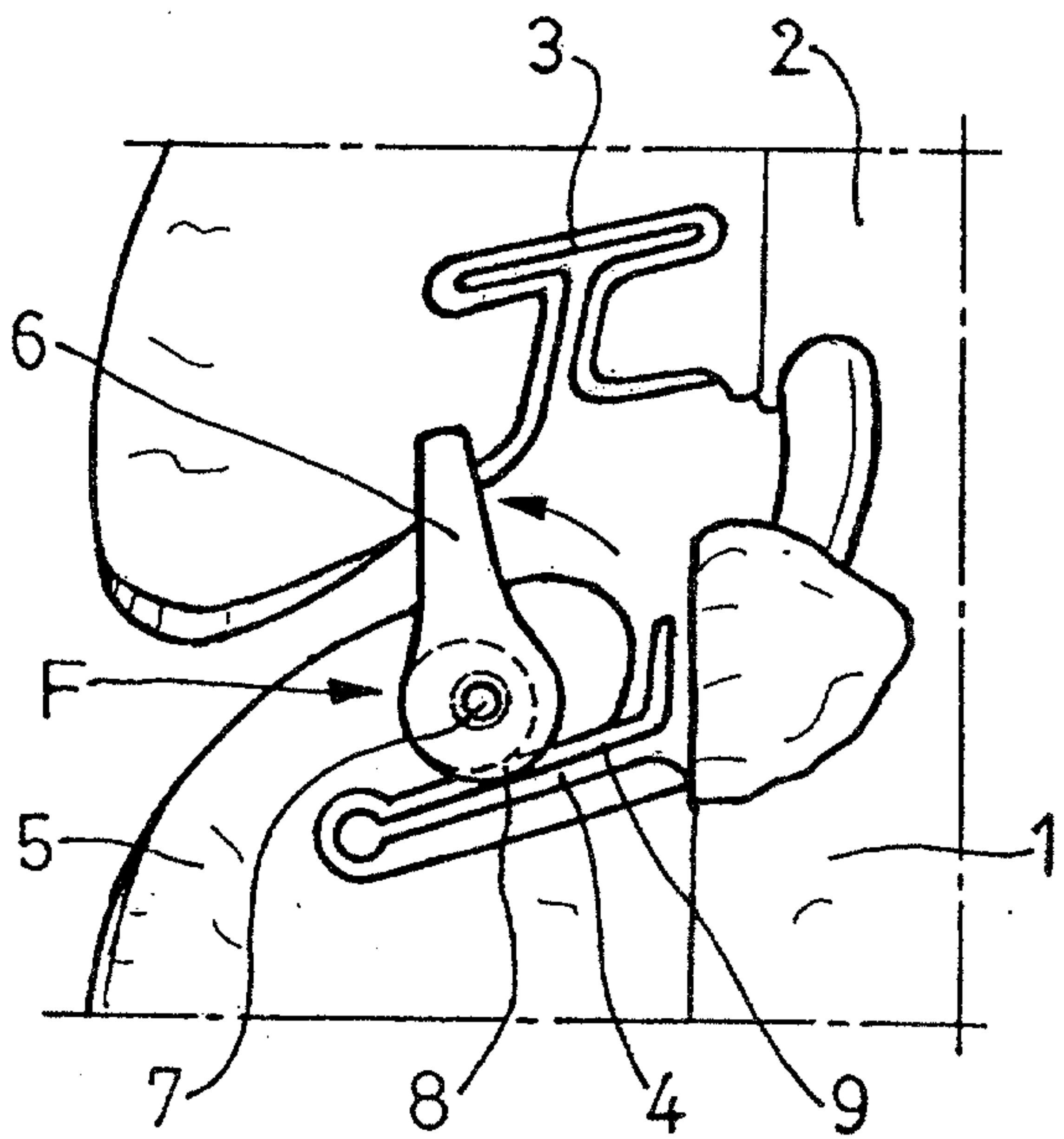


Fig. 2

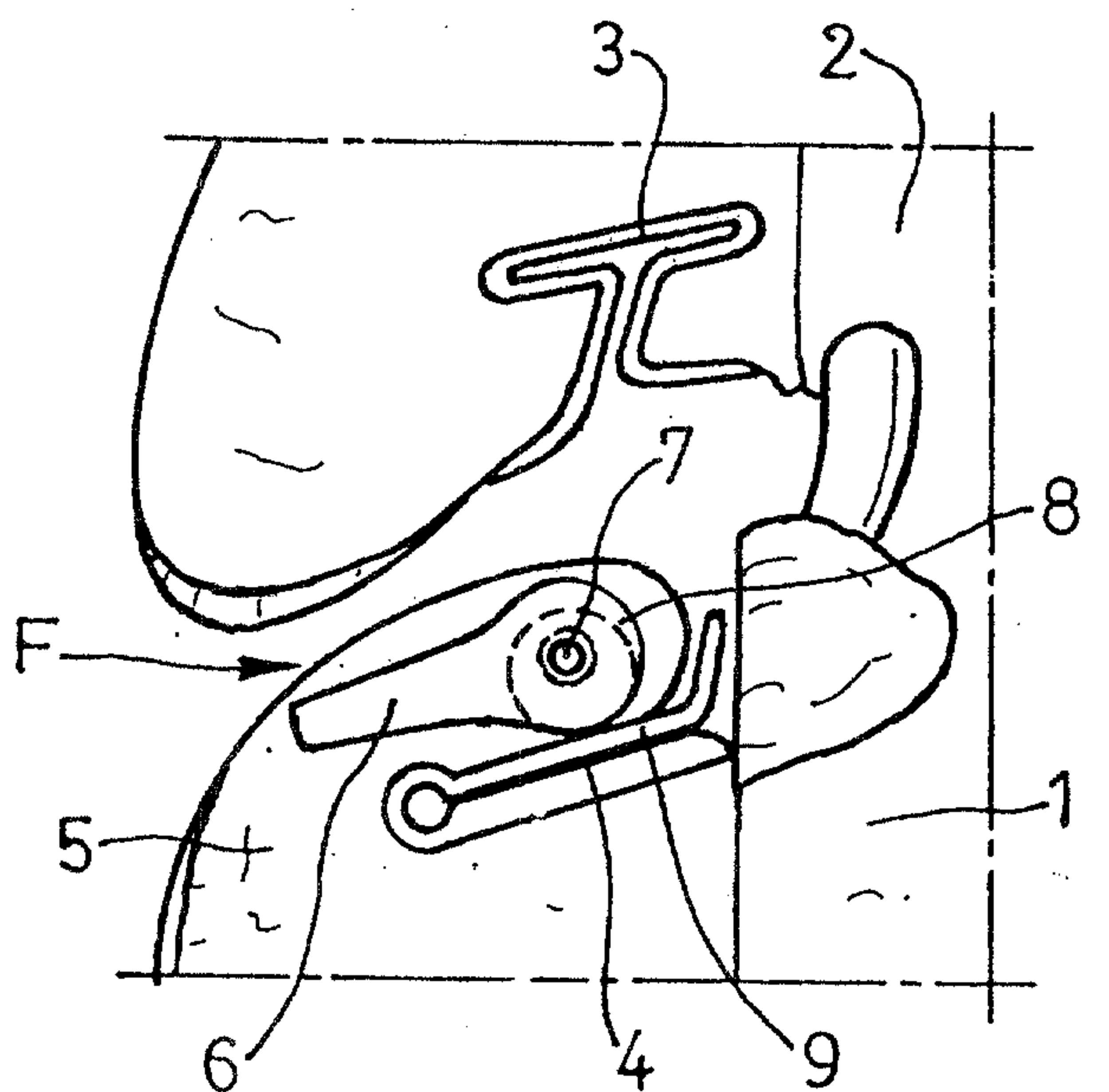


Fig. 3

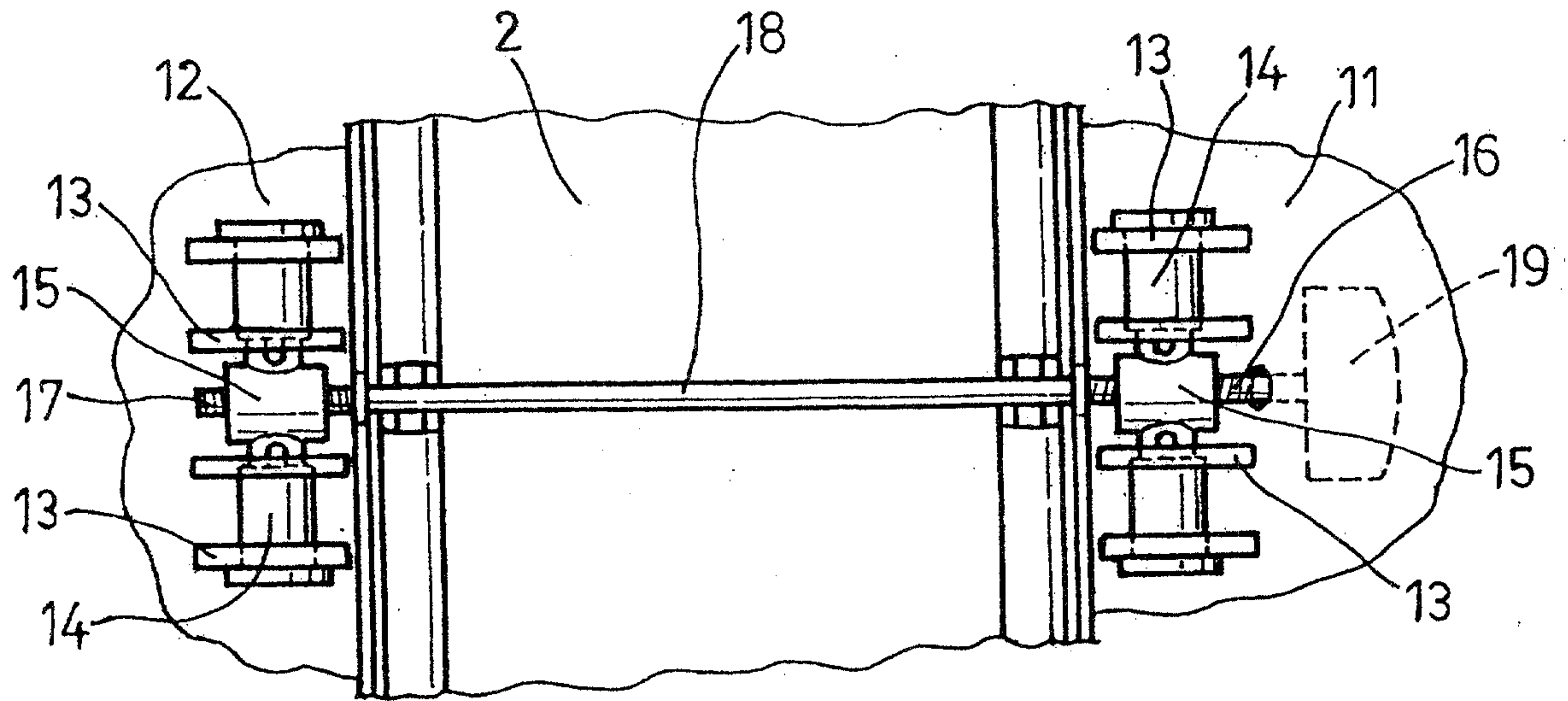


Fig. 4

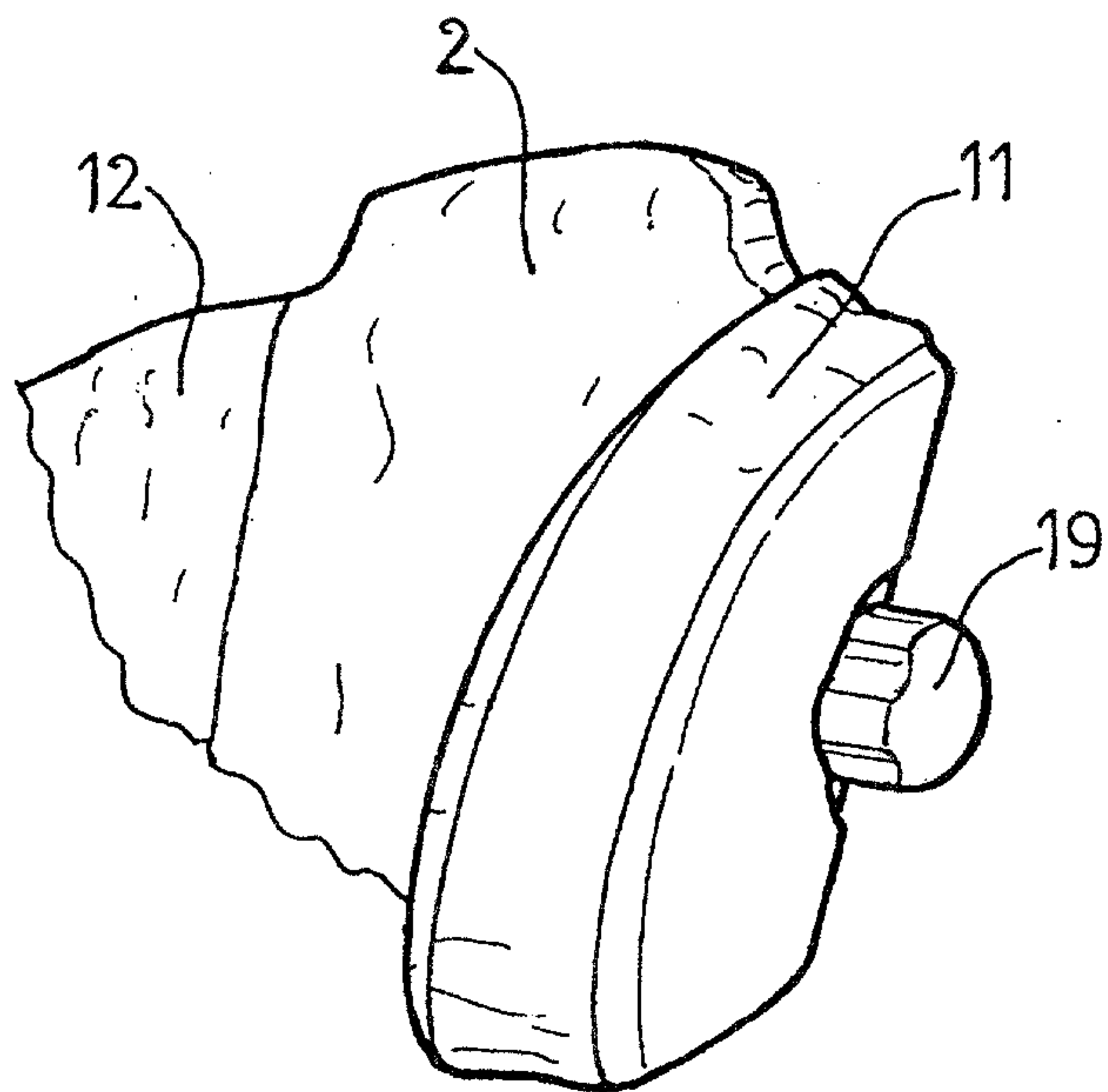


Fig. 5

