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(54) **Protective clothing of the femur head during the sports activity**

(57) The protective clothing consists of a pair of shaped pieces (1) in knock absorbing material with a con-

ic cavity hole (2) for each shaped pieces (2), where said hole is placed with the its cavity less outside and with the bigger cavity inside onto the femur head.

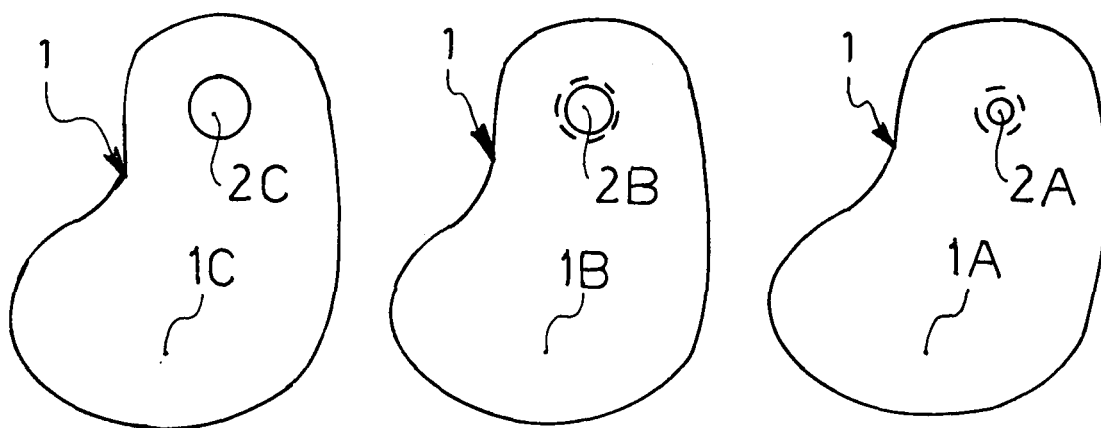


FIG.1

Description

[0001] In the field of the sports activities are used protections so to avoid violent knocks or body abrasions. The known protections consist of softening material parts with the aim to absorb and to damp the knock. These protections, however, do not permit to train having a part of the body contused, such as the material during the pressure and after the compression becomes rigid and it transmits the knock to the body part with the contusion. These protections so make impossible to practice sports activity during the recovery, such as following knocks on-to the contused body part retard and worsen the recovery. Moreover, also to have an aching body part and must do actions that can determine other knocks onto the contused part creates a movement inhibition. In the sport activity a hesitation or a retarding movement, also of few twelfths, caused to said inhibitions, can determine an error or to make a movement in wrong times. The present invention refers to a new protection clothing suitable to avoid the pathology known as bursitis of the femur head. Said pathology develops with knocks and violent contacts always onto the same body part. In particular these pathology is developed generally in the football play where the goal-keepers in the dives or in the sliding actions have violent contact to the femur head or in the falls of the players, where the voluntary or not falls involved the flank and so the femur head. Moreover, the invented protection permits to avoid rubbing abrasions with the ground during the fall. Aim of the invention is to have a clothing to protect the femur head suitable to avoid the bursitis and side damages to the hip joint. Other aim of the invention is have a protection to the femur head and the hip joint so to can practice sports activity also having a body part contused such as further received knocks do not beat the femur head and they do not develop bursitis. With the invented protection, infact, a prevention phase against the received knocks is obtained and a recovery more quick is permitted such as the femur head is not subjected to other knocks. The invented protection clothing to protect the femur head is to be used in all the sports where violent and repeated contacts with the ground are possible, such as rugby, skating, American football, martial arts or ski, snowboard or skateboard activities or similar. The invented clothing is illustrated in a merely indicative and not limiting way in the drawings of sheets 1 and 2. In sheet 1 figure 1 is frontal view of the pieces that in an embodiment are elements of the invented clothing. Figure 2 is view of the piece made of a sole structure that in other embodiment is element of the invented clothing. Figure 3 is section view of the pieces of figure 1 assembled. Figure 4 is view of part of the invented clothing not subjected to a push or crash. Figure 5 is view of part of the invented clothing hit to a knock. In sheet 2 figure 6 is lateral view of the invented clothing wears under a common shorts. Figure 7 is frontal view. In a preferred but not limiting embodiment, the invented protection clothing of the femur head in sports activities is made of a pair of

shaped pieces 1 in absorbing material against the knocks, like neoprene or similar. Said pair of shaped pieces to be realised also with materials 1A, 1B and 1C with different knocks absorbing capacity put together with sticking or, in a same way, in material with different knocks absorbing capacity realized with a sole fusion. At a suitable height is present a conic cavity hole 2 formed, in the embodiment determined to the superimposition of more pieces, to holes at growing size 2A, 2B and 2C, axially superimposed with the hole of less size placed at the outside layer. The pair of shaped pieces 1 are applied to a shorts 3 in elastic material adherent to the user body, i.e. a short known as "cyclist shorts". The application to the adherent shorts 3 is realized by means of pocket 4 with upper closing 5. In the same way the pair of shaped pieces 1 can be connected to the adherent shorts 3 by sticking of by sewing. The adherent shorts 3 with in its inside the pair of shaped pieces 1 is positioned in such a way to have the conic cavity hole 2 in correspondence of the femur head 6 and with bigger size cavity adherent to the femur head. Subsequent over the short 3 is dressed a short 7, normally used for the sports activity. The invented protection, placed with the hole 2 concentric in comparison with the femur head 6, in case of falling or knock in said part, downloads the knock onto the circular wall near the femur head and, such as also to the maximum pressure do not completely reduce its thickness, onto the femur head knocks or pressure are not possible.

Claims

1. Protective clothing of the femur head during the sports activity **characterized in that** for the protection is used a pair of shaped pieces (1) in knock absorbing material with a conic cavity hole (2) for each shaped pieces (1), where said hole is placed with its cavity less outside and with the bigger cavity inside onto the femur head.
2. Protective clothing of the femur head during the sports activity **characterized in that** for the protection is used a pair of shaped pieces in material with different knocks absorbing capacity (1A, 1B, 1 C) assembled, with conic cavity hole for each shaped piece (1A, 1B, 1C) to be obtained for the superimposition of the pieces (1A, 1B, 1C) having growing size holes (2A, 2B, 2C) axially superimposed, with the hole of less size placed outside and the hole of bigger size placed inside in contact with the femur head.
3. Protective clothing of the femur head during the sports activity, as per claims 1 or 2, **characterized in that** the pair of shaped pieces (1) is connected to shorts (3) in material suitable to adhere with the user body, with the conic cavity hole (2) placed in correspondence with the femur head (6).

4. Protective clothing of the femur head during the sports activity, as per claims 1 or 2, **characterized in that** the pair of shaped pieces (1) is placed in pockets (4) with upper closing (5) of the shorts (3) in material suitable to adhere to the user body with the hole (2) with conic cavity in correspondence with the femur head (6).
- 5.
5. Protective clothing of the femur head during the sports activity, as for the previous claims, **characterised in that** the hole (2) can have cavity with different shape and with part of the hole placed near the femur head (6) with diameter bigger than the femur head.

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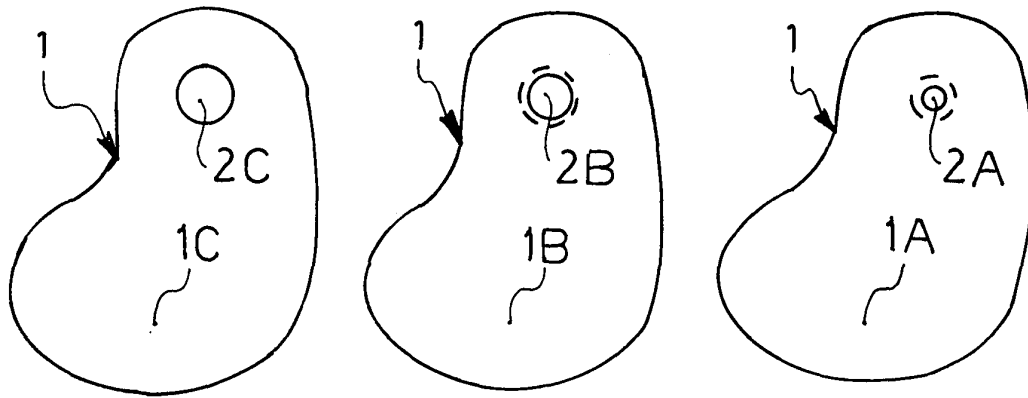


FIG. 1

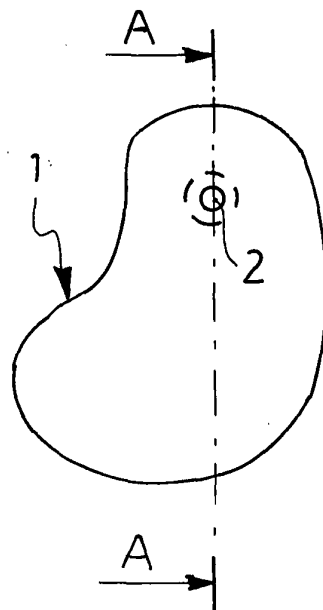


FIG. 2

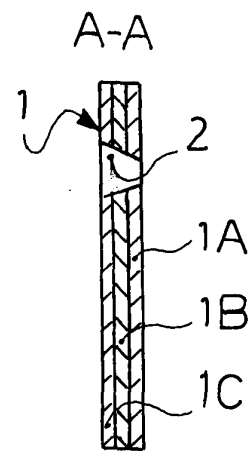


FIG. 3

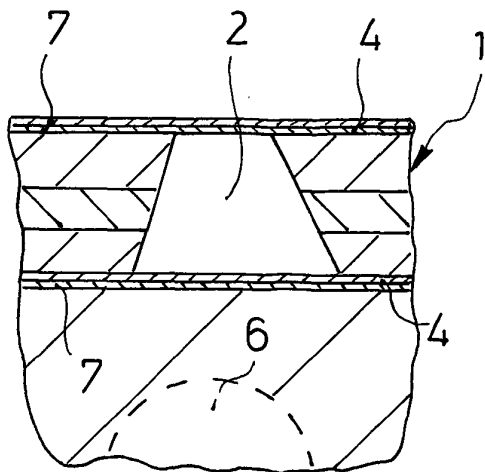


FIG. 4

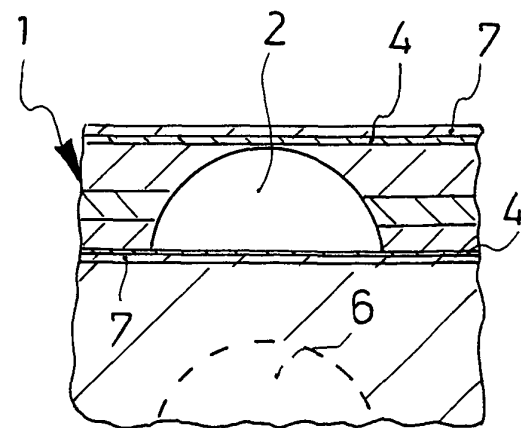


FIG. 5

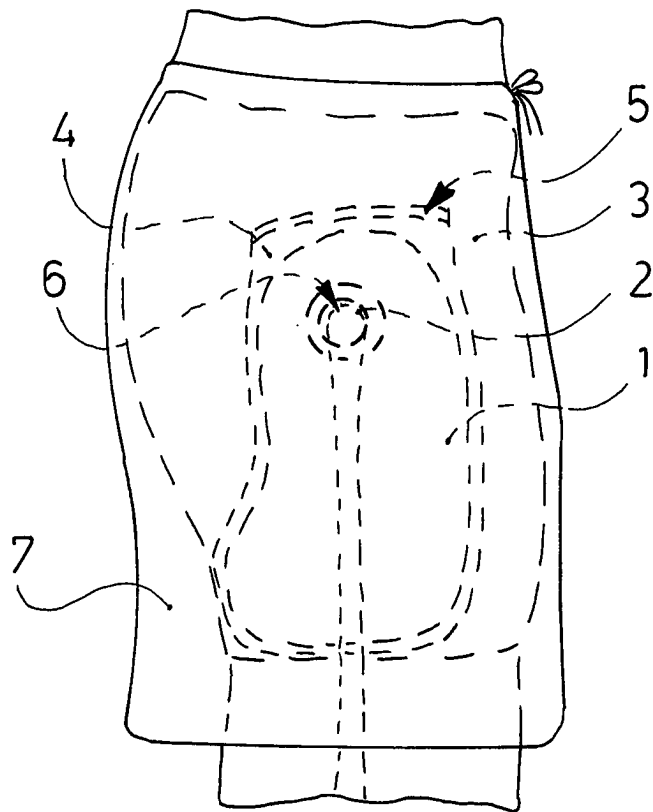


FIG. 6

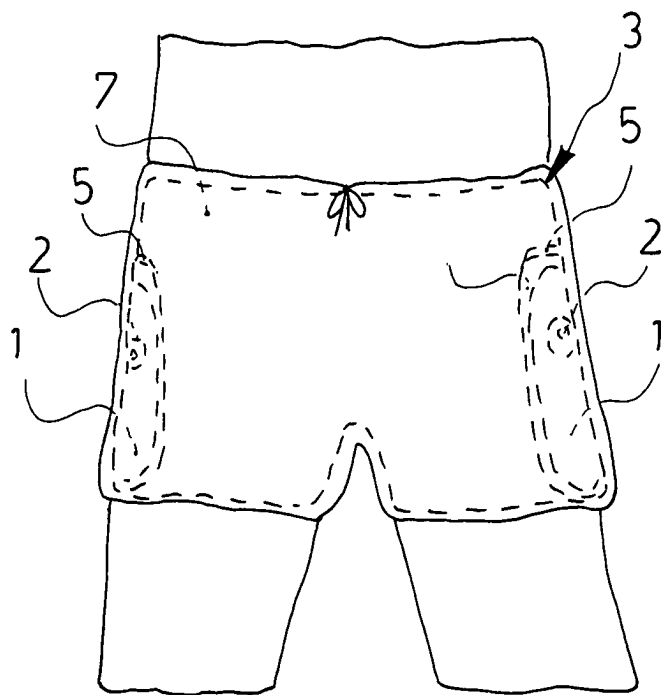


FIG. 7