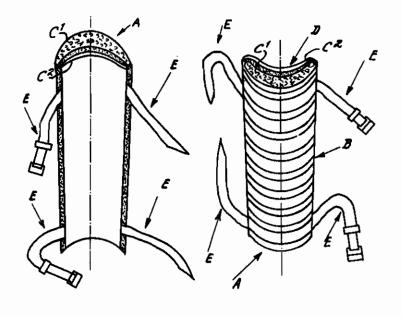
PUBLISHED

JUNE 1, 1943.

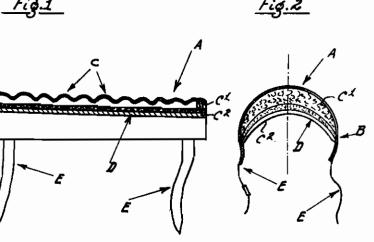
V. GIARDINI
LIMB (GUARD OR) PROTECTOR FOR THE SPORTSMAN
AGAINST STROKES OR THE LIKE
Filed May 24, 1940

Serial No. 337,084

BY A. P. C.



<u>Fig.1</u>



Inventor

Virgilio Giardini
sing Lung - Happa

Attorneys

ALIEN PROPERTY CUSTODIAN

LIMB (GUARD OR) PROTECTOR FOR THE SPORTSMAN AGAINST STROKES OR THE

Virgilio Giardini, Milano, Italy; vested in the Alien Property Custodian

Application filed May 24, 1940

During the sport games it is advisable or necessary for the players to wear a shield in order to avoid the consequence of strokes or shocks on the limbs. Such a shield may also be sometimes

For the purpose were proposed different apparatuses to smother the effect of strokes or shocks, particularly on the shin-bone, among which are as felt, rubber, stuffing or pneumatic cushion. Such pads cannot constitute a shield offering a sure protection, therefore stiffening inserts were used in such pads. With the stiffening inserts without inserts, nevertheless the pads with stiffening inserts do not offer the best solution on account of the fact that the affected surface of the limb is greater than that covered by a mere pad, a surface a little larger of that of the two stroking bodies. Anyhow the interested surface is always, more or less, restricted around the stroked

on a restricted surface, according to the invention, the limb protector makes use of a stiff gutter-shaped part, which do not contact directly with the limb. The limb is bandaged with a flexible and not yielding material, which constitutes 30 a bridge between the lateral edges of the gutter so that a void space results between the bandage and the gutter.

It is a matter of course, therefore, that a stroke on the gutter will affect a large surface, which 35 will comprehend at least a good part of the breadth and all the length of the bridge.

In order to make clearly understand the present inventon, on the annexed drawing there is tion in the shape of a shin-bone protector, that

Fig. 1 a back view, in Fig. 2 a front view, in

Fig. 3 a side section and in

Fig. 4 a view from the height of a shin-bone protector according to the present invention.

In all figures the same part is marked with the same reference.

The gutter a is constituted of a material suited 50 for the purpose, that is of sufficient stiffness and resistance to strokes, such as f. inst. hard-rubberized or resin impregnated fabric, hard rubber incorporating textile fibres, metal sheet, fibre, or edges b are properly rounded in order to avoid the tearing of the bandage d on the jointing lines on which both contact. If the case requires the gutter may be provided with stiffening ribs c, of

suitable size and shape, which can show either a transverse or longitudinal or any other direc-

The bandage d is attached to the gutter a along advisable for workers to prevent accidents or 5 the edges b and to the leg by means of the straps The material employed for the bandage has on the one hand to be flexible enough to fit properly to the leg and on the other to be enough inextensible in order to resist to the strokes and to to be considered the pads of elastic material such 10 the flattening tendency of the gutter without stretching out and so let the gutter stroke the shin-bone.

On account of the fact that the limb protector has to guard the bones more than the fleshy part there is an improvement compared to the pads 15 of the limb, it is a matter of course that the attaching means have to be such to correspond entirely to this requirement.

In the example is necessarily described only a given type of limb protector, that is a shin-bone where the effect of the stroke is distributed on 20 protector. It is a matter of course that the basic idea of the present invention may be employed for the protection of other limbs as f. inst. the forearm and be so shaped as to protect either the cubital or the radial bone or both according to the In order to avoid the effect of the stroke only 25 probability of the one or the other to be struck or hurt.

> On the illustrated example the limb protector is fixed to the leg by means of straps, but evidently the fixing means vary as f. inst. the shinbone protector can be fixed to the stocking of the wearer or the material used for the bridge may extend so as to bandage the leg and be tightened by strings or by zipper fastening or by other means suitable for the purpose.

In some cases it may appear suitable to provide the side toward the wearer limb of the material of the bridge or of the whole bandage and the straps with a lining such as felt, sponge rubber, sheets of rubber coated hair, a. s. o. in order to schematically presented one form of the inven- 40 further absorb the stroke and particularly to allow a free movement of the muscles. The space between the gutter and the bridge may be closed at the ends by means of the same material used for the bandage or for the lining or any other 45 suitable material.

The shape of the gutter can vary according to the different requirements without leaving the basic idea of the invention. It may assume more or less the form of the limb so that f. inst. the shin-bone protector may be worn underneath the stocking without being too much noticed.

Should it be required a gutter of great stiffness. some well disposed stiffening ribs will do.

It results from the before said exposition that the like, and presents a noteworthy bend. The 55 the basic idea can be further developed in order to suit the requirements of its employment in the different cases or in order to reach the shape which better suits the aimed scope.

VIRGILIO GIARDINI.