Aug. 16, 1955 M. L. TURNER 2,715,227

HELMETS

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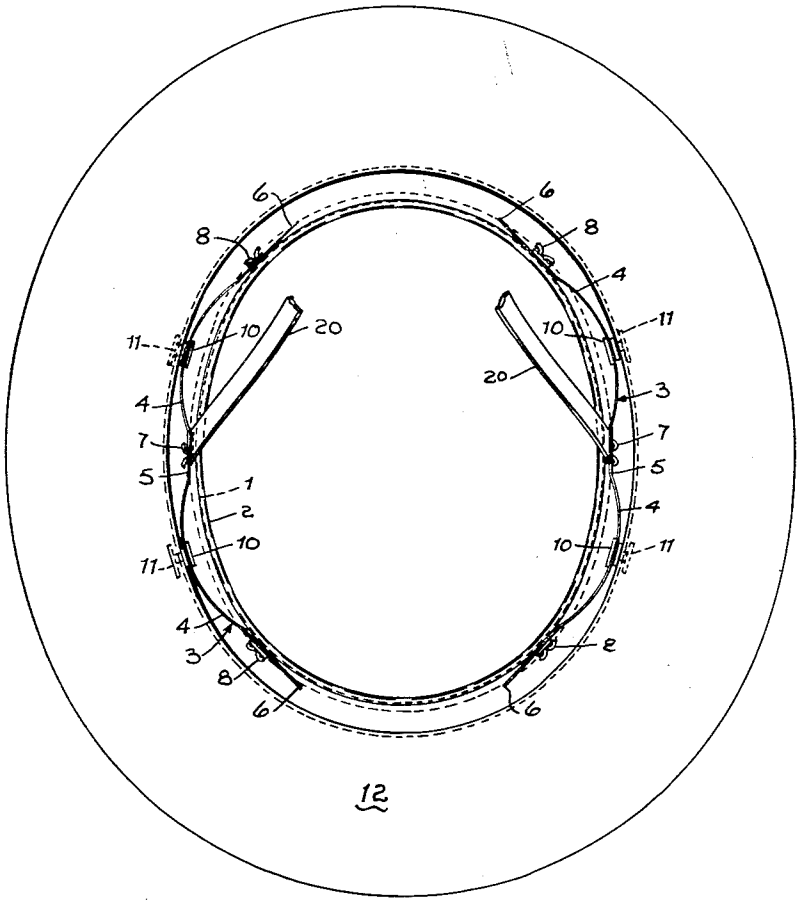


FIG. 1.

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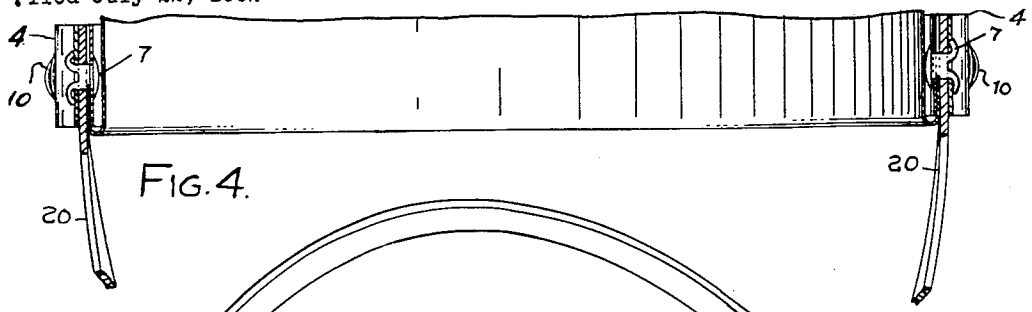


FIG. 4.

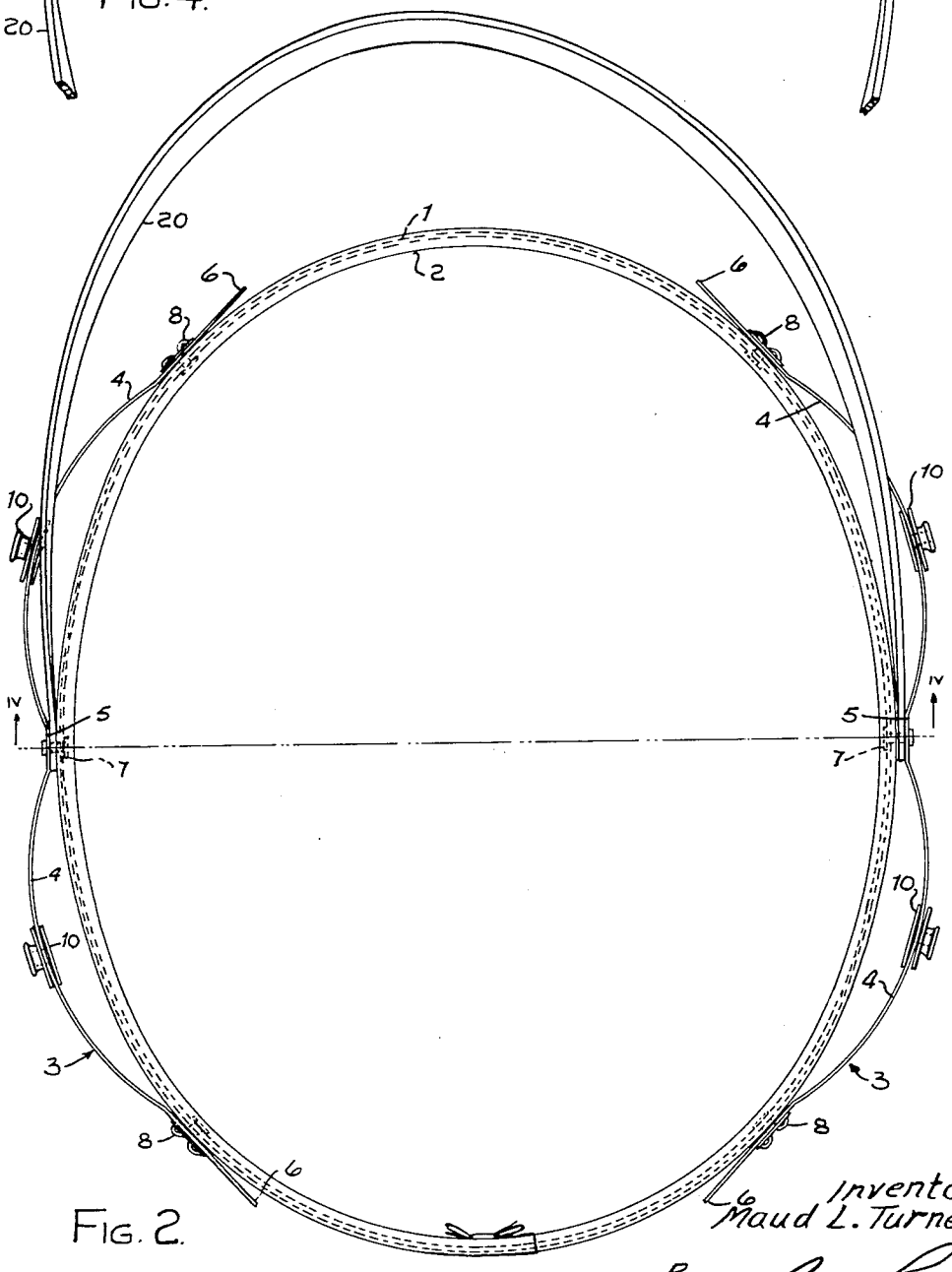


FIG. 2.

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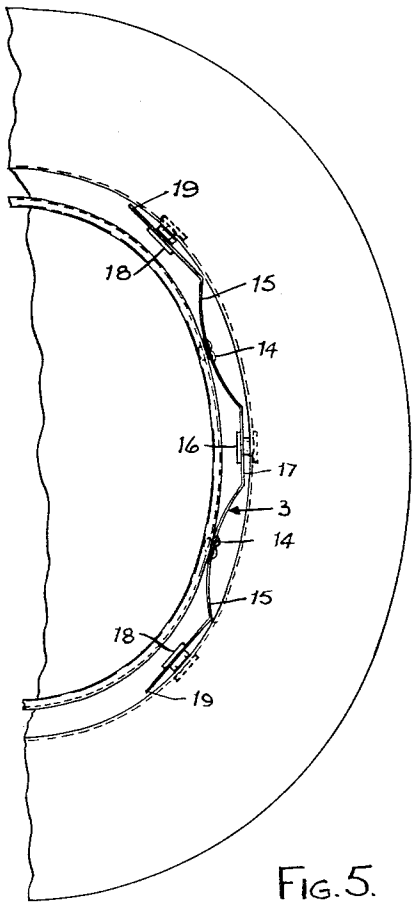


FIG. 5.

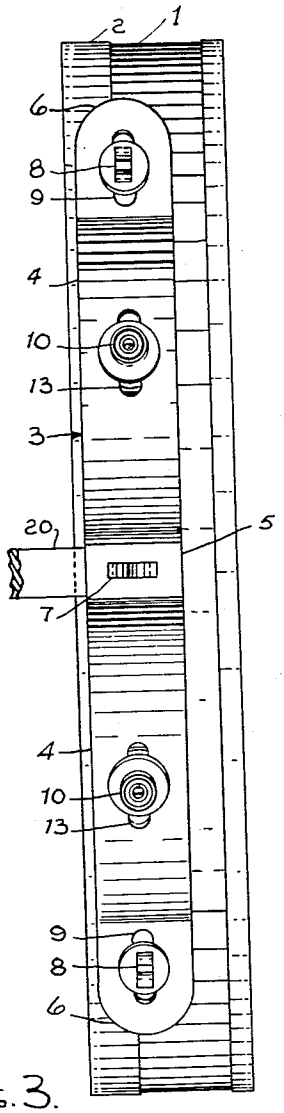


FIG. 3.

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United States Patent Office

2,715,227

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2,715,227

HELMETS

Maud Louisa Turner, Wheathampstead, St. Albans, England, assignor to Helmets, Limited, Wheathampstead, St. Albans, England, a British company

Application July 22, 1952, Serial No. 300,223

Claims priority, application Great Britain July 30, 1951

1 Claim. (Cl. 2—182.1)

The invention relates to helmets and more particularly to the type of helmet for wear in the tropics, which is provided with a head band secured inside the helmet so as to leave a ventilating space between the band and the adjacent inner surface of the helmet.

In order to provide a headband of this type which can be detachably secured and will support the helmet resiliently yet firmly so as to avoid rocking of the helmet, a headband according to the invention is provided with sinuous supporting strips secured to its sides, so that they can yield or be self-adjustable within limits, the supporting strips being detachably secured to the adjacent surfaces of the helmet by snap fasteners.

A headband according to the invention can thus be readily detached from a helmet and replaced by another to fit the wearer.

In the drawings:

Figure 1 is a view of the interior of a helmet with one example of headband attached.

Figures 2 and 3 are respectively a plan and a side view of the headband detached.

Figure 4 is a sectional view on IV—IV, Figure 2.

Figure 5 shows another example of headband attached to a helmet, only part of the helmet being shown.

In one example, a headband **1** of vulcanised fibre and provided with a sweat band or head leather **2** is provided at each side, externally, with a sinuous supporting strip **3** of vulcanised fibre. Each supporting strip **3** may be of the same depth as the headband **1** and have two waves or segmental portions **4** connected at the centre by a flat portion **5**, the ends **6** of the strip also being approximately flat to conform to the shape of the headband.

Each supporting strip is firmly secured at its centre by a rivet or clinched fastener **7**. The flat end portions **6** are slotted to receive a rivet or fastener **8** provided with a washer, so as to permit of relative sliding movement or self-adjustment within the limits of the slots **9**.

Each supporting strip is also provided at the summit of each wave or segmental part with one element **10** of a snap fastener for engagement with a corresponding element **11** on the inside of a helmet **12**.

The snap fastener elements **10** on each supporting strip are preferably secured through slots **13** in the strip **1** so as to permit of limited movement. A chin strap **20** may be attached to the headband.

In another example, as shown in Figure 5, there are provided sinuous supporting strips **3** similar to those of the example previously described, but these strips are assembled the reverse way round, that is, the top of the curved portions are adjacent the headband. In this example, six such fasteners are required for each helmet instead of four as in the first example. Each sinuous supporting strip **3** is secured to the headband by rivets or fasteners **14** passing through the centres of two hollows of waves or segmental parts **15**, a snap fastener element **16** being fitted at the summit or central part **17** and another **18** at each of the ends **19**.

The elements **18** are preferably secured to the ends **19** through slots to permit of slight movement.

In either example, the headband **1** with its attached head leather **2** is readily detachable and can be exchanged for another if the adjustment allowed within the limits of the slots does not enable the headband to fit the wearer.

The waved or arched form of the supporting strips does not interfere with the resiliency of the headband which is free to conform to the shape of the wearer's head, whereas the comparative stiffness of the waved or arched portions prevents rocking of the helmet relatively to the headband and maintains adequate ventilating space between the two.

I claim:

A helmet having a headband and a pair of relatively stiff resilient strips of sinuous form secured to the helmet and headband with one of said strips on each side of said headband, each of said strips extending substantially along the sides from the front to the rear of the headband and having two relatively flat arcuate portions extending in the same direction, said arcuate portions having longitudinally extending slots in the summits and the free ends thereof, and fasteners passing through and slidable in said slots and securing said resilient strips to the helmet and headband respectively, whereby the slots allow free relative movement between said strips and said fasteners limited by the lengths of the slots, the fasteners securing the strips to the helmet being snap fasteners permitting detachment of said headband and strips from the helmet.

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