M. DRAG.

SOLDIER'S HELMET.

APPLICATION FILED JULY 6, 1917.

1,256,532.

Patented Feb. 19, 1918.

2 SHEETS—SHEET 1.

FIG. 1.

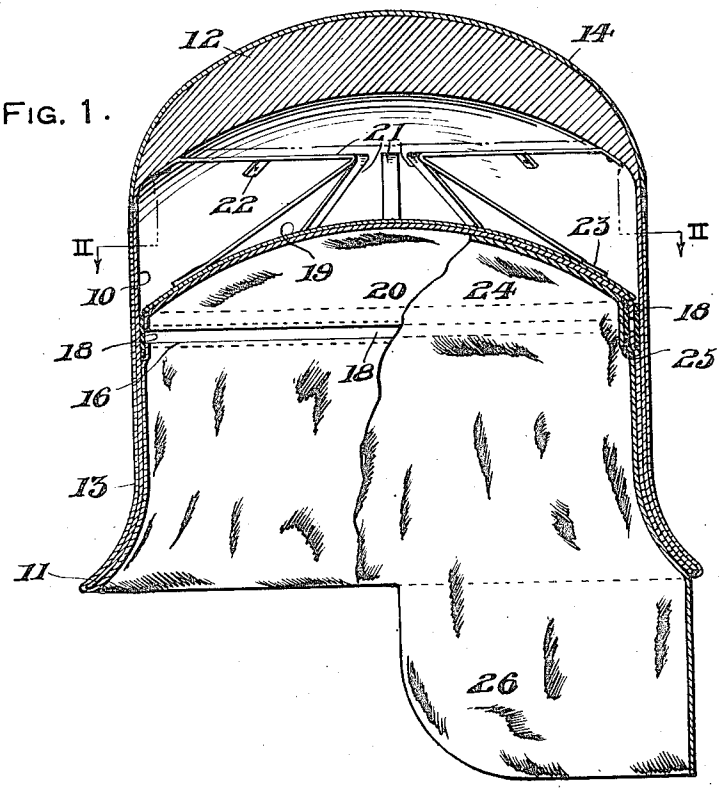
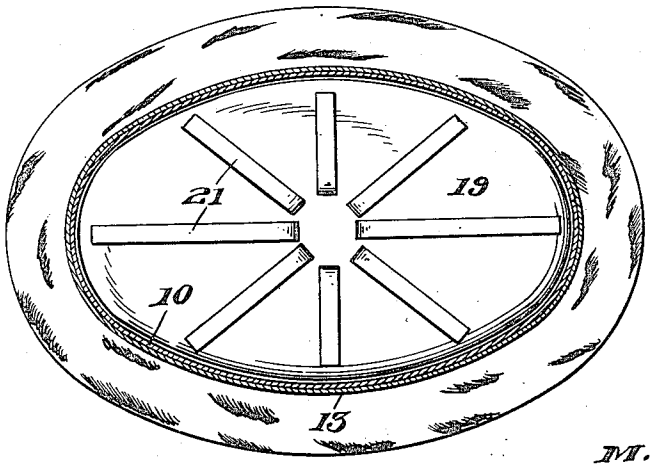



FIG. 2.




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## SOLDIER'S HELMET.

1,256,532. Specification of Letters Patent. Patented Feb. 19, 1918.

Application filed July 6, 1917. Serial No. 178,994.

*To all whom it may concern:*

Be it known that I, MIKOLAJ DRAG, a subject of the Emperor of Austria, residing at McKees Rocks, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Soldiers' Helmets, of which the following is a specification.

This invention relates to new and useful improvements in soldiers' helmets.

The primary object of the invention is the provision of a head gear or helmet which is substantially bullet proof and arranged with a cushioning means for absorbing shocks incident to being struck by missiles.

A further object of the device is the provision of a helmet adapted to be worn by soldiers as a protection against bullets, the same being resiliently mounted upon the head while a covering provided therewith gives the same a desirable external appearance.

A still further object of the device is to provide a helmet that is light in weight and easy to manufacture adapted as a protection against missiles, a removable lining cap being provided adapted for employment in cold weather.

In the drawings forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views,

Figure 1 is a central transverse sectional view taken through the device with the winter cap positioned therein and broken away.

Fig. 2 is a transverse sectional view taken upon line II—II of Fig. 1.

Fig. 3 is a central sectional view of the device taken upon a plane perpendicular to the line of section of Fig. 1.

Fig. 4 is a similar sectional view of a slightly modified form of construction.

Fig. 5 is a perspective view of a portion of the cap lining employed and

Fig. 6 is a perspective detailed view of a portion of the armor plate and one of its cushioning springs.

Referring more in detail to the drawings, the device broadly consists of a metal hat shaped member 10 having an outwardly flaring portion 11 at its open end or brim while an integral upstanding rib 12 extends centrally along the top thereof from the front to the rear of the same.

A flexible covering 13 formed of such material as leather or cloth is arranged exteriorly upon the member 10 terminating exteriorly at opposite points adjacent a base of the rib 12 while a metal covering 14 is provided for the said rib and overlying the adjacent ends of the covering 13 with the said coverings secured together by hold-fast devices such as 15.

The covering 13 extends inwardly of the member 10 terminating at a point 16 slightly spaced from the inner top wall portion 17 of the helmet and secured over a reinforcing band 18 positioned therein. A metal dome or roof plate 19 is arranged within the member 10 adapted for positioning above the head of the wearer and is provided with a soft lining 20 for seating upon the head, the said lining depending within the band 18 while the dome 19 is maintained there-above, being of slightly greater diameter than the said ring.

The cushioning springs 21 of V-shape formation are secured at their outer end as at 22 to the inner wall of the member 10 while the depending portions of the springs are provided with terminal feet 23 at their free ends, freely resting upon the top of the dome 19. The complete operation of the device will be apparent from this detailed description thereof, it being seen that with the hat arranged upon the head of a soldier and the dome seated upon the head, any missile dropping upon or hitting the upper portion of the helmet will force the helmet downwardly while this movement will be cushioned by means of the springs 21.

A cap 24 is shown in Fig. 5 which is adapted to be worn in winter when found desirable by placing the cap within the helmet or in other words by placing the helmet over the cap 24 when the latter is arranged upon the head. The cap is provided with an encircling rubber band 25 for giving the same a tight fit while a depending portion 26 is arranged for covering the ears when desired, although the portion 26 may be folded within the cap when not desired for use.

In Fig. 4 a modified form of the device is shown in which the metal dome member 19′ is in the shape of a hat having flaring lower edges 11′ and arranged with a suitable soft lining 20′ which extends outwardly forming an outer covering 13′ therefor. A protecting top plate 10′ is resiliently mounted upon the dome 19′ by means of

springs 21′ and is arranged with a central longitudinal rib 12′ preferably covered by a metal covering 14′. In this construction of the device the same is adapted to be worn upon the head and any blow upon the dome 10′ is cushioned by the springs 21′ for protecting the dome 19′ and the head of the soldier upon which the device is mounted.

A serviceable head protector is arranged which is inexpensive to manufacture but which will afford protection for the wearer against missiles and blows, thereby assisting the safety of the soldier.

What I claim as new is:—

1. A helmet comprising a metal hat-shaped member having an upstanding longitudinal rib upon the top thereof, a metal dome arranged within the said member adapted for seating upon the head of the wearer and V-shaped springs secured to the said member and freely engaging the top of the dome positioned therebeneath.

2. A helmet comprising a metal hat having an integral exterior rib along the top thereof, a covering for said hat terminating adjacent the base of the rib and extended inwardly of the hat, forming a lining terminating substantially midway of the height of the hat, a reinforcing band within the hat adjacent the inner end of the lining, a metal dome within the hat arranged above the said band and being of greater diameter than the band, springs carried within the hat having feet at the lower end freely contacting the top of the dome and a metal covering for the rib secured to the cap, overlying the adjacent outer edges of the said covering.

3. A device of the class described comprising a metal hat having a flaring edge at its open end and arranged with a longitudinally positioned integral rib upon the top thereof, a head engaging support for the device arranged within the hat, resilient means between the hat and said support, a continuous covering and lining for the hat and a removable warmth imparting member adapted for arrangement within the hat.

4. A helmet comprising a metal hat, a metal dome resiliently mounted thereon and a lining for the hat surrounding the latter and arranged exteriorly upon the dome.

In testimony whereof I affix my signature.

MIKOLAJ DRAG.