

M. ISIDOR & F. HEIN.

Hats and Caps.

No. 165,100.

Patented June 29, 1875.

Fig. 1.

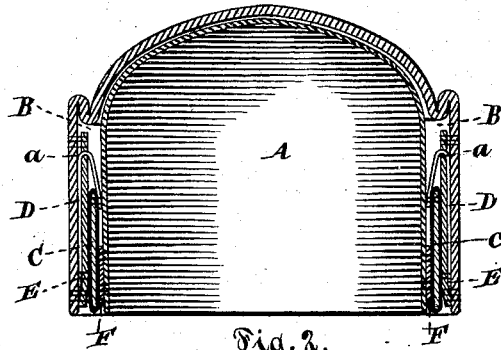


Fig. 2.

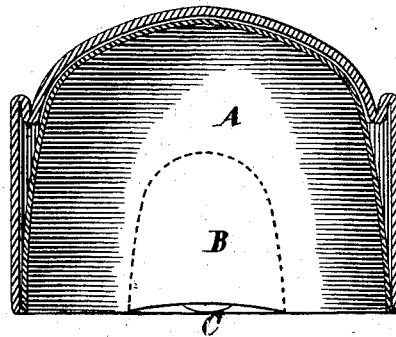


Fig. 3.

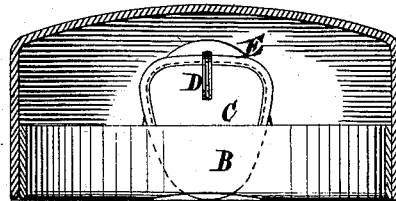
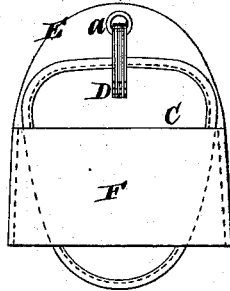


Fig. 4.



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# UNITED STATES PATENT OFFICE

MORITZ ISIDOR AND FERDINAND HEIN, OF NEW YORK, N. Y.

## IMPROVEMENT IN HATS AND CAPS.

Specification forming part of Letters Patent No. 165,100, dated June 29, 1875; application filed June 2, 1875.

*To all whom it may concern:*

Be it known that we, MORITZ ISIDOR and FERDINAND HEIN, of the city of New York, in the county and State of New York, have invented a new and useful Improvement in Hats and Caps, which improvement is fully described in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a cross-section of our improvement. Fig. 2 is a similar section in the plane of the line *xx*, Fig. 1. Fig. 3 shows a modification of our improvement. Fig. 4 is a front view of an ear-protector.

Similar letters indicate corresponding parts.

This invention consists in the combination of a supporting guide-frame with an ear-protector, which slides in said frame, and with a spring, in such a manner that by said spring the ear-supporter is drawn out. Its top edge catches against the bottom edge of the guide-frame, which forms a stop to retain the protector against the action of the spring.

The invention further consists in the combination of an ear-protector and a connecting-spring with a pocket constructed in a head-covering, such as a hat or cap, said ear-protector adapted to be vertically moved in and out of the pocket by the wearer without removing the hat or cap off his head.

The connecting-springs not only serve to retain the protectors within the head-covering, but moreover have a tendency to draw them toward the ears of the wearer when the covering is put on the head.

The ear-protectors, as well as the springs, are connected to supporting-frames, whereby the whole may readily be secured to a head-covering of any form.

In the drawing, the letter A designates a head-covering in the form of a cap, made according to our invention. B B are the pockets, which are formed opposite to each other, so that when the cap is put on the head the pockets may be brought above the ears, and the ear-protectors contained in the pockets may be made to cover the ears. The pockets furthermore are formed on the inside of the cap, and may be constructed in various ways. Figs. 1 and 2 show the pockets formed in the lining of the cap, while in Fig. 3 we have

shown the same formed under the sweat-band. The letters C C designate a form of ear-protectors which are connected to the pockets or to the cap A by means of bands D D, which in the present example are formed of india-rubber, and constitute springs, the object of which is to retain the protectors within the pockets B B, or within the cap, as hereinafter more fully explained.

We prefer to make the ear-protectors C C of like material to the cap A, or other head-covering to which they may be applied.

It is obvious that when the ear-protectors are placed in the pockets B B, as represented, they are held out of contact with the head of the wearer of the cap, so that they remain in a clean condition, while moreover the person is relieved from the inconvenience of having the protectors dangle from the cap whenever the latter is removed from the head.

The ear-protectors C C are secured to supporting-frames, one of which is shown in detail in Fig. 4, and which are constructed of a supporting-piece, E, to which is secured a cross-piece, F. The bands or the springs D D are connected to the frames E F by being fastened to the back of the supporting-piece E, whence they are passed through an aperture, *a*, formed in the supporting-piece, to the front side thereof, at which point the bands are connected to the protectors C C.

By the supporting-frames E F we are enabled to combine the ear-protectors C C with a head-covering of any form with great facility, and to furnish the protectors in a separate condition from the head-covering.

In connecting the frames to a cap or other head-covering having the pockets B B, we sew or otherwise secure the piece E to one side, and the piece F to the other side, of the pockets.

Instead of the elastic bands D D, springs of coiled wire may be used with equal facility. By the action of the springs the ear-protectors are firmly held in place until removed by force, when it is desired to make use of the protectors.

When the ear-protectors are removed from the cap A, and the cap is placed on the head, the protectors are for the time being prevented from returning to the cap by reason of the compression of its rim, and of the compression of the pockets B B, by the head of the wearer.

In order to further this object the protectors may also be provided with buttons so arranged as to abut against the edge of the head-covering.

When the ear-protectors are drawn out the tension of the springs D D serves to press the protectors against the ears of the wearer of the cap. If desired the protectors may be provided with chin-straps, arranged in the ordinary manner, in order to admit of tightly compressing the protectors against the ears.

It may be remarked that the ear-protectors C C, with the springs D D and supporting-frame E F, may be used independently of the pockets B B, without departing from our invention.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of a supporting guide-

frame with an ear-protector which slides in said frame, and with a spring which forms the connection between the ear-protector and the frame, all constructed and operating substantially in the manner shown and described.

2. The combination of an ear-protector and a connecting-spring with a pocket constructed in a head-covering, said ear-protector adapted to be vertically moved in and out of the pocket, substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands and seals this 27th day of May, 1875.

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Witnesses:

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