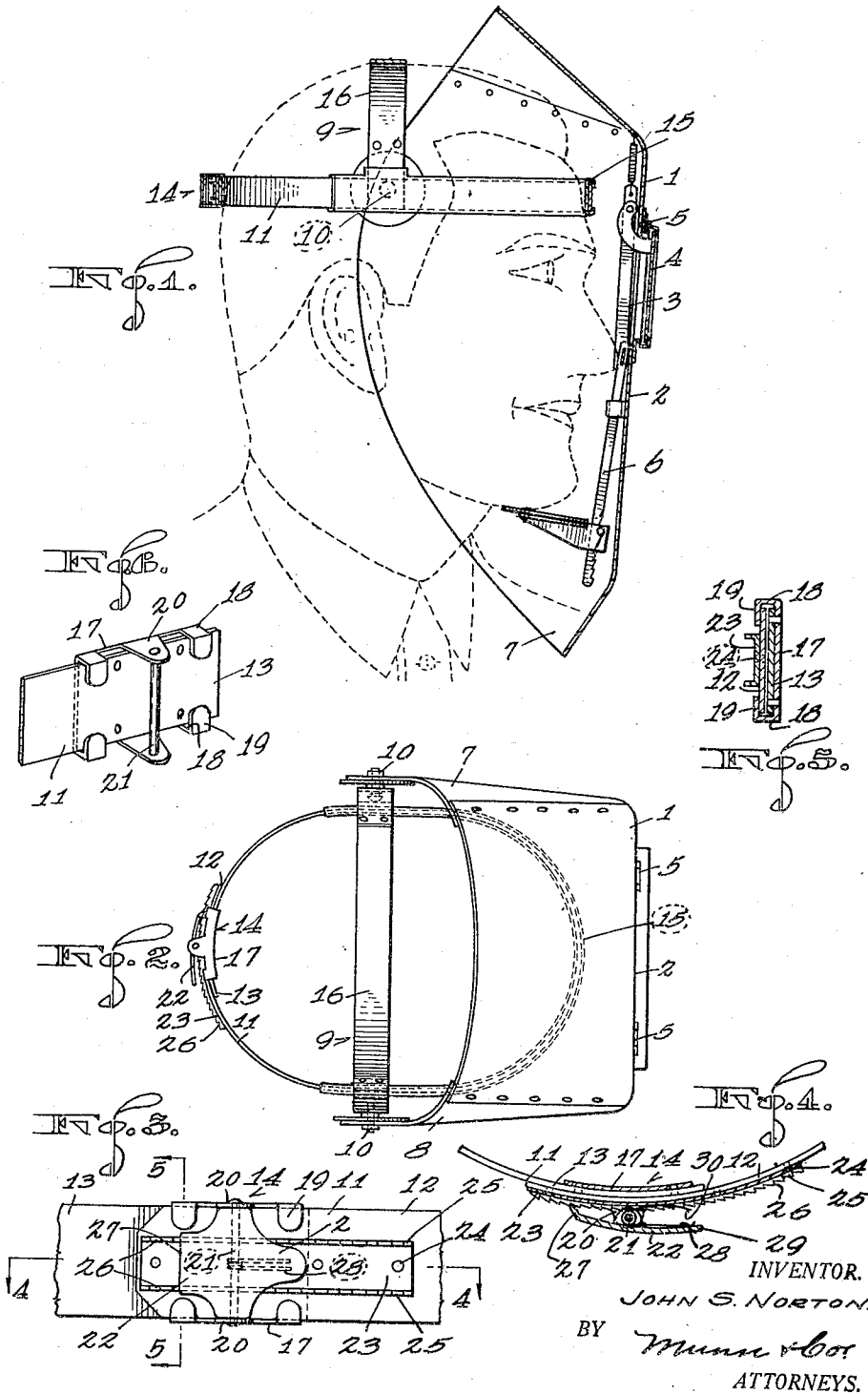


July 26, 1932.

J. S. NORTON
ADJUSTABLE FASTENER

1,868,718

Filed Feb. 28, 1931



UNITED STATES PATENT OFFICE

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ADJUSTABLE FASTENER

Application filed February 28, 1931. Serial No. 519,130.

The present invention relates to improvements in adjustable fasteners especially designed for welders' hoods, and it consists in the combinations, constructions and arrangement of parts hereinafter described and claimed.

An object of my invention is to provide an adjustable fastener for a band in a welder's hood that accommodates the band to various head sizes. The head gear snugly embraces the head of the welder, and is designed to hold the hood portion in position relative to the welder's eyes.

Other objects and advantages will appear as the specification proceeds, and the novel features will be pointed out in the claim hereto annexed.

My invention is illustrated in the accompanying drawing forming a part of this application, in which

Figure 1 is a vertical section through a hood disclosing my head gear attached thereto;

Figure 2 is a plan view thereof;

Figure 3 is a fragmentary elevation of one of the head straps showing my fastening means attached thereto;

Figures 4 and 5 are sections along lines 4—4 and 5—5 of Figure 3, respectively; and

Figure 6 is a perspective view of a portion of the fastening means which I employ.

In carrying out my invention I make use of a standard hood indicated generally at 1, and having the front face 2 thereof formed with an opening 3 at the level of the operator's eyes. A glare shield 4 is swingably secured to the hood as at 5, and the shield is adapted to be moved into open position by means of a chin actuated mechanism designated by the numeral 6. The hood is fashioned with side portions 7 and 8 which extend rearwardly from the face 2 in slightly diverging relation with respect to each other. The hood is pivotally secured to a head gear 9 at 10 in such a manner as to allow the hood to be held in active position as shown in Figure 1, or to be moved into a position overlying the welder's head.

The parts thus far described form no part of the present invention, except insofar as

they cooperate with the parts now to be set forth.

The head gear is fashioned with a strap 11 that is adapted to encircle the welder's head around the temple portions with the ends 12 and 13 of the strap arranged in overlapping relation, and adjustably secured together by fastening means 14 as hereinafter described.

The portion of the strap extending across the forehead and the sides of the operator's head is preferably lined with a pad indicated at 15, and shown in section in Figure 1. The strap in turn has a transverse arc-shaped band 16 rigidly secured thereto, the latter extending over the welder's head and limiting the downward movement of the strap.

A plate-like member 17 is riveted to the end 13 of the strap as shown in Figure 6, and this member is provided with lugs 18 having ends 19 projecting toward each other from opposite sides of the member and forming guides for the end 12. Ears 20 are struck from the member 17 and carry pin 21 to which a pawl 22 is swingably secured. A channel member 23 is attached to the end 12 as at 24 with the flanges 25 projecting outwardly and serrated so as to present teeth 26. The channel is guided beneath the pawl 22, see Figure 4, so that the pointed end 27 of the pawl engages with the teeth. The pawl is yieldingly urged into engagement with the teeth by a spring 28. One end of the spring bears against the handle portion 29 and the other end contacts with the web of the channel 23. The spring has several coils encircling the pin 21 and the end 30 thereof is cam-shaped so as to facilitate the insertion of the channel beneath the pawl.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. The end 12 of the strap 11 is introduced between the guiding lugs 19 in overlying relation with the end 13. The teeth on the flanges 25 permit the pawl to ride thereover when the size of the strap 11 is reduced, but prevent the strap from increasing in head size. It is of course understood that the operator can adjust the strap to any desired head size by

merely releasing the pawl 22 from the teeth on the channel.

The hood is adjusted on the welder's head in the usual manner, and the glare shield 4 may be swung into open position by a chin movement in order to allow the welder to view his work, or the entire hood assembly may be moved into a position above the welder's head. The head gear snugly embraces the head, and the strap 11 is adjustable so as to permit the same to be readily and conveniently adjusted to different head sizes.

While I have shown only the preferred form of my invention, it should be understood that the same is susceptible to various changes, and I reserve the right to employ such changes as may come within the scope of the appended claim.

I claim:

20 An adjustable fastener comprising a plate having guide lugs and a pivot pin, a pawl carried by the pin, a coiled spring mounted on the pin and having one end bearing against the pawl and the other end bearing against the plate with its end portion inclined away from the plate at an angle, a second plate, a channel-shaped member with serrations in its edges secured to the second plate, said second plate being slidably received by the first plate and guide lugs, the inclined spring end being received in the channel, and said pawl yieldingly engaging with the serrations.

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