

T. JANSEN.
ADJUSTABLE BELT.
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Patented Feb. 1, 1921.

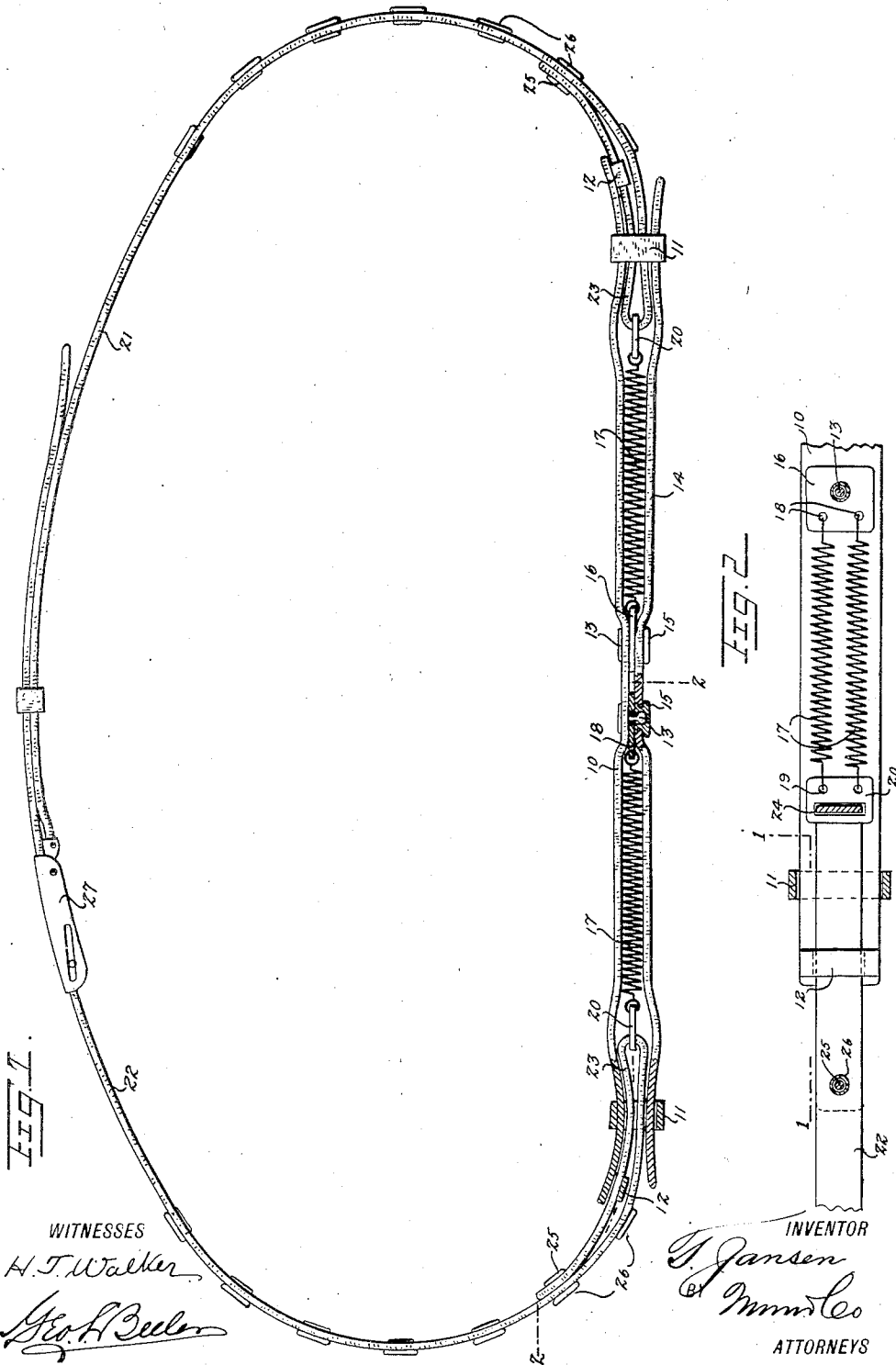


FIG. 1.

FIG. 2.

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ADJUSTABLE BELT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS JANSEN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Adjustable Belt, of which the following is a full, clear, and exact description.

This invention relates to adjustable belts for wearing apparel and has particular reference to means for varying the effective length of the belt so as to fit it to persons of different sizes.

Among the objects of the invention in addition to the adjustability in length of the belt is to provide one having peculiarly housed resilient members, stop means being provided to prevent the over-stretching of said resilient members.

Another object of the invention is to provide a belt construction, the several parts of which are so connected as to provide for complete separation thereof for repair, interchange, or the like.

With the foregoing and other objects in view the invention consists in the arrangement and combination of parts hereinafter described and claimed, and while the invention is not restricted to the exact details of construction disclosed or suggested herein, still for the purpose of illustrating a practical embodiment thereof reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which—

Figure 1 is a plan view of one of my improved belts, parts being broken away on the line 1—1 of Fig. 2,

Fig. 2 is a vertical longitudinal section along the broken line 2—2 of Fig. 1.

Referring now more specifically to the drawings I show at 10 an inner backing strip adjacent to the opposite free ends of which are attached a pair of keepers 11 or loops through which the other parts of the belt are guided. At the extreme ends of the backing strip 10 are fixed a pair of loops 12 constituting stop members. The central portion of the backing strip is provided with a plurality of spaced anchor members 13 similar to the well known head and socket snap fasteners. The head and shank portions of these fasteners are fixed permanently to the strip 10.

Outside of, substantially parallel to, and practically coextensive in length with the

backing strip is an outer facing strip 14 the central portion of which is provided with as many socket members 15 as there are headed shank members 13 and with which they severally coöperate for the dual purpose first of securing the facing strip to the backing strip at the center, and secondly to establish anchor points for any suitable number of plates 16 to which resilient members 17 are connected. These resilient members are shown in the form of coil springs and have their inner ends attached in holes 18 of the plates 16 while their outer ends are connected in similar holes 19 of movable plates or slides 20. As indicated I provide two springs 17 for each pair of plates 16 and 20, but obviously the number might be greater or less as desired and instead of using two plates 16 with a corresponding multiplicity of springs it may be preferred in some instance to use only one spring or pair of springs attached to a single plate 16.

The remaining portion of the belt comprises in the main two straps 21 and 22 which, as is also true of the backing and facing strips, may be made of leather or any other suitable strong, tough, flexible material, either elastic or non-elastic as may be deemed most expedient. These straps are each provided with a looped end 23 threaded through a slot 24 of a slide 20 and after passing through the stop loop 12 is adapted to be secured to the intermediate portion of the strap by means of any suitable separable fastener, or its equivalent, such as head and socket members 25 and 26 respectively to thereby vary the effective length of the strap so adjusted. Obviously the slot 24 and the stop slide 12 are large enough to permit the snap member 25 to pass through, and when the members 25 and 26 are snapped together the looped end of the strap is of fixed length. This description of the means for attaching either strap will be understood as being applicable to both straps 21 and 22.

The elastic members 17 and the anchorage or connection means therefor are all arranged along the outer face of the backing strip 10 and are covered or faced completely by means of the facing strip 14. The guide loops or keepers 11 are large enough to permit the free longitudinal movement of the looped end portions 23 and the slides 20 therethrough, the movement being outward while the slides approach the stops 12 which serve to limit the extent of movement of

the slides at all times irrespective of the length of the belt straps or the adjustment at the fasteners 25 and 26. Consequently while the springs 17 provide ample elongation of the belt for the utmost comfort to the wearer it is impossible to strain or overstretch the springs because of the slides coming into contact with the stops. When the belt is relieved of the maximum tension that may thus be put upon it the elastic members serve naturally to return the slides toward the center of the structure. Any suitable buckle 27 may be provided to detachably connect the loose ends of the straps 21 and 22 for the usual purposes.

I claim:

1. In a belt of the nature set forth, the combination of a backing strip, a facing strip extending along the backing strip and having its end portions spaced therefrom, means at the middle portions of the strips to detachably secure them together, a pair of straps having their ends located in the spaces between the backing and facing strips, and means to secure the straps in the spaces aforesaid, the last mentioned means including separable fasteners and plates constituting the means for securing the two strips together.

2. In a belt of the class set forth, the combination with backing and facing strips, head and socket means to secure these strips detachably together and with the end portions thereof spaced from each other, a pair of straps, at least one of the straps having a looped end located within the space aforesaid and movable lengthwise thereof, anchorage means for said looped end, and elastic means cooperating with the anchorage means and said looped end of the strap to serve as an attachment between the looped end and the anchorage means.

3. In a belt of the class set forth, the combination of a backing strip, a facing strip extending therealong, means to fasten these strips together leaving a space between the ends thereof, a pair of straps, at least one of which has a looped end located and movable longitudinally in the space aforesaid, a slide attached to said looped end, a plate held in place by the means for attaching the strips to each other, elastic connecting means between the plate and the slide, and positive stop means carried by the end of the backing strip and cooperating with said slide to limit the stretch of the elastic means, substantially as set forth.

THOMAS JANSEN.