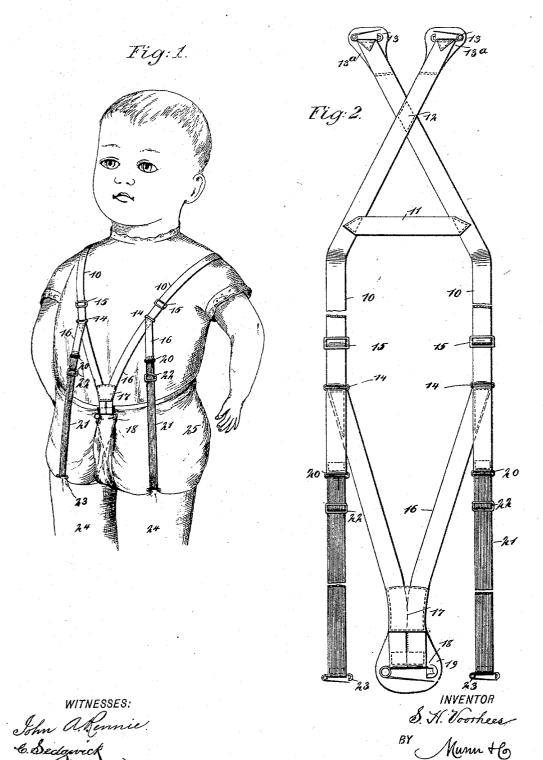
S. H. VOORHEES. SUSPENDERS.

No. 511,003.

Patented Dec. 19, 1893.



HE NATIONAL LITHOGRAPHING COMPANY, WASHINGTON, D. C.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL HERBERT VOORHEES, OF DELAWARE, NEW JERSEY.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 511,003, dated December 19, 1893.

Application filed April 15, 1893. Serial No. 470,414. (No model.)

To all whom it may concern:

Beitknown that I, SAMUEL HERBERT VOOR-HEES, of Delaware, in the county of Warren and State of New Jersey, have invented new 5 and useful Improvements in Sanitary Suspenders, of which the following is a full, clear,

and exact description.

My invention relates to improvements in that class of suspenders which are adapted to to support diapers, stockings, drawers and similar articles of clothing on the bodies of infants, small children and women, and the object of my invention is to produce a cheap, simple, and easily applied device, by means 15 of which the said articles of clothing may be suspended from the shoulders so as to avoid all the injurious effects attendant upon supporting the said articles from the waist; also to construct the device so that the clothing 20 will be always held in proper position, thus avoiding any exposure of delicate parts of the body; and further, to construct and arrange the parts of the suspenders in such a way that the movements of the body will be in nowise 25 restricted.

To these ends, my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in both views.

Figure 1 is a perspective view showing the 35 application of the suspenders to the body of a child and to the clothing on the child; and Fig. 2 is a broken detail view of the suspen-

ders.

The device is provided with shoulder straps 40 10, which may be made of any suitable material, although the shoulder straps and the entire device are preferably made of material possessing a certain amount of elasticity, to provide for easy movement of the body. 45 shoulder straps 10 converge at the back and are connected together by a cross brace 11, which acts as a shoulder brace and prevents the straps from separating and falling down over the arms, and the straps are crossed, as 50 shown at 12, at which point they are secured together, while at their lower ends they are I the body to move freely, for when the body

provided with safety pins 13, or equivalent fastening devices to enable them to be secured to the clothing of the child, and behind the pins are flaps or shields 13a to protect the 55

skin from injury by the pins.

The front ends of the shoulder straps 10 terminate in loops which are adjusted in the usual way as to length by means of the buckles 15, these being of any suitable construc- 60 tion, and the loops of the straps carry keepers 14, which are preferably of metal. The shoulder straps are provided with extensible lower ends formed by the two straps 16, which converge at their lower ends and are united and 65 reinforced, as shown at 17, and the united ends of the straps carry a safety pin 18 or equivalent fastening, which is adapted to be secured to the clothing of the child, and the pin has at its back a shield 19, which is se- 70 cured to the straps 16, and prevents the pin from coming into injurious contact with the body of the child.

The upper ends of the straps 16 are passed through and stitched in the keepers 14, and 75 the free ends of the straps bend over so as to place the loops 20 horizontal with the shoulders, and in the middle line of the leg carry metal loops 20, in which are suspended the leg straps 21, which extend downward, are ad- 80 justable as to length by means of the usual adjusting buckles 22, and carry at their lower ends safety pins 23, or other suitable fastenings, which are adapted to be secured to the

tops of the stockings 24.

The application of the device to a child wearing stockings and a diaper, is shown in Fig. 1. The shoulder straps 10 are placed upon the shoulders of the child. The pins 13 are fastened to the back portion of the diaper 90 having flaps that pass underneath preventing chafing and taking the line of support away from the crotch and placing it over the but-tocks. The pin 18 is fastened to the front portion at the center and top, or waist line, 95 and the pins 23 are secured to the stockings and fold of diaper that passes between the legs and is fastened by the diaper 18, around the leg where the stocking joins. This arrangement holds both the diaper and stock- 100 ings in their proper positions, and it enables

is bent, the freedom of movement is facilitated by the elasticity of the straps. It also causes the legs to be completely covered and protected.

5 My object being to protect or shield the body from irritation or abrasion by the different parts of the device I arrange the shield or flaps as heretofore described and shown and in addition to this the meeting ends of the two continuations 16—instead of being placed one

o continuations 16—instead of being placed one on top of the other, thus making a double thickness here—are placed edge to edge, and thus secured by the reinforce 17. This makes a thin flat connection and together with the

15 broad flap 19 it serves to present a broad smooth bearing surface and prevents abrasion, irritation or annoyance of any kind.

Having thus described my invention, I claim as new and desire to secure by Letters 20 Patent—

1. A suspender consisting of the shoulder straps 10, having the keepers 14 at their front ends, the straps 16 converging and secured together at their lower ends, the attaching 25 device at the said lower connected ends,

device at the said lower connected ends, said straps 16 having prolongations passing through the keepers 14 and extending down therefrom, and the stocking supporting straps secured to the lower ends of the downward

prolongations of the straps 16, substantially 30 as described.

2. A suspender consisting of the shoulder straps having the keepers 14 at their lower ends, the straps 16 converging at their lower ends and having an attaching device, said straps having prolongations passing through the keepers, secured thereto, and extending downward therefrom, the stocking supporting straps secured to the lower ends of said prolongations, the adjusting buckle 15 on the 40 shoulder straps above the keepers 14 and the adjusting buckles on the stocking supporting straps, substantially as described.

3. A suspender consisting of the shoulder straps having attaching devices at their lower 45 rear ends, the converging straps 16 secured to the front ends of the shoulder straps and having their meeting lower ends placed edge to edge and secured together by a piece 17, the attaching device at the lower ends of the 50 straps 16 and the protecting flaps 19—13° arranged back of the attaching devices, substantially as described.

SAMUEL HERBERT VOORHEES.

Witnesses:

CARLISLE B. HUFF, WILLIAM H. HARTUNG.