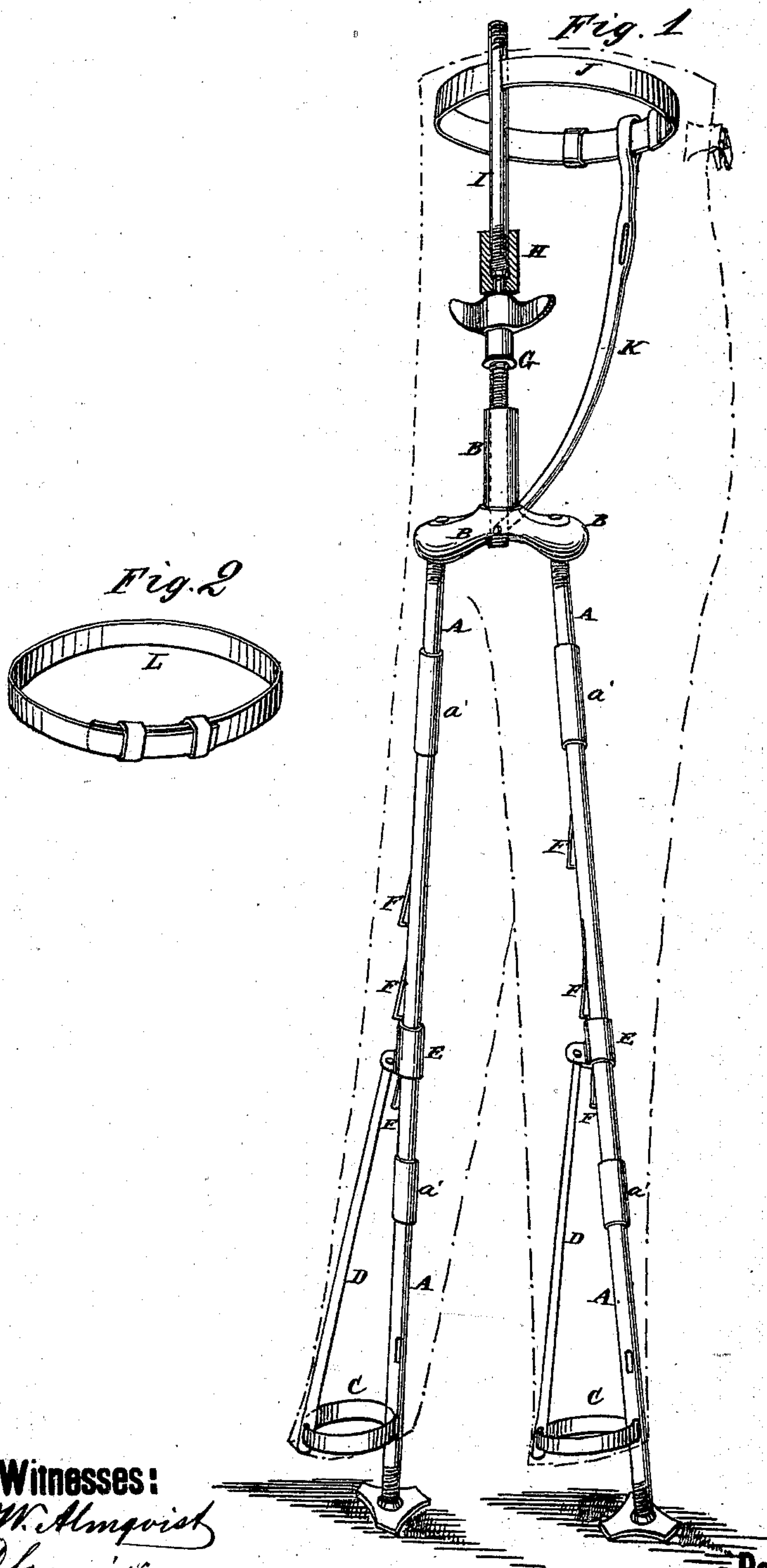


J. D. RYAN.
Pantaloons-Stretchers.

No. 144,703.

Patented Nov. 18, 1873.



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UNITED STATES PATENT OFFICE.

JOHN D. RYAN, OF NEW YORK, N. Y.

IMPROVEMENT IN PANTALOONS-STRETCHERS.

Specification forming part of Letters Patent No. **144,703**, dated November 18, 1873; application filed September 13, 1873.

To all whom it may concern:

Be it known that I, JOHN D. RYAN, of the city, county, and State of New York, have invented a new and useful Improvement in Pantaloon-Stretcher, of which the following is a specification:

Figure 1 is a perspective view of my improved pantaloons-stretcher. Fig. 2 represents a detached adjustable spring-ring for insertion in the thighs of the pantaloons.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a device for stretching pantaloons to remove the bagging at the knees, and the wrinkles in the other parts caused by wear, so that the pantaloons may be made perfectly smooth without its being necessary to send them out every few days to be cleaned and pressed, and which shall be simple in construction and convenient in use.

The invention consists in the pantaloons-stretcher formed of the two lower rods, provided with the open spring-rings, adjustable rods, sleeves, and spring-catches, in the three-armed block, the swiveled screw, the nut, and upper rod, and the open spring-ring and its curved adjustable brace-rod, constructed and combined as hereinafter fully described, and in the detached open spring-rings, in combination with the upper parts of the lower rods of the pantaloons-stretcher, as hereinafter fully described.

A are two rods, of a length about equal to the length of the legs of the pantaloons to be operated upon, and the upper ends of which are screwed into, jointed to, or otherwise secured to the ends of the two lower arms of the three-armed block or bar B. C are open spring-rings, similar to the one shown in Fig. 2, the ends being adjustably secured to each other by passing one end through keepers attached to the other end. The spring-rings C are passed through slots in the lower part of the rods A, several slots being formed in said rods, so that the rings C may be adjusted according to the length of the legs of the pantaloons. The rings C are also passed through slots in the lower ends of the short rods D, the upper ends of which are hinged to sleeves E that slide upon

the rods A, and are held in place by spring-catches F similar to the spring-catch of an umbrella-runner, or by some other suitable fastening. Several of the spring-catches F are applied to the rods A, so that the rods D may be moved up and down to adjust the rings C to the inclination or spring of the bottoms of the pantaloons-legs. The rods A I prefer to make in sections, connected together by long nuts *a'*, so that they can be conveniently taken apart and compactly packed in a trunk or other receptacle. In the upper or long arm of the three-armed block B is formed a screw-hole to receive the screw G, which is made with a cross-head for convenience in operating it, and the upper end of which is swiveled to a nut, H, which receives the lower end of the rod I. In the upper part of the rod I is formed a slot to receive the open spring-ring J, which is similar in construction to the rings C, and is made of such a size as to fit the waist of the pantaloons. K is a curved rod, the lower end of which is inserted in a hole in the three-armed block B, and its upper end is slotted to receive the ring J, several slots being formed in the upper part of the rod K, so that the ring J may be adjusted to the length of the body of the pantaloons. L is an open spring-ring, similar in construction to the rings C J, and which are designed to be passed around the upper parts of the rods A, and dropped into the thighs of the pantaloons-legs to straighten out any wrinkles that may have formed in said parts. The lower ends of the rods A may be provided with feet to enable the device to stand upright; or the upper end of the rod I may be provided with a ring or loop to enable the device to be hung up. The rings C J are designed to be covered with cloth, so that the bottoms of the pantaloons-legs and the waistband may be conveniently pinned to them; then, by turning out the swiveled screw G, the pantaloons may be stretched, so as to remove the bagging or wrinkles, and leave them straight and smooth.

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

1. The pantaloons-stretcher, consisting of the rods A, provided with the open spring-

ring C, adjustable rods D, sleeves E, and spring-catches F, the three-armed block B, the swiveled screw G, nut H, rod I, open spring-ring J, and curved adjustable brace-rod K, said parts being constructed and combined substantially as herein shown and described.

2. The detached open spring-rings L, in

combination with the upper parts of the rods A of the pantaloons-stretcher, substantially as herein shown and described, and for the purpose set forth.

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