

(No Model.)

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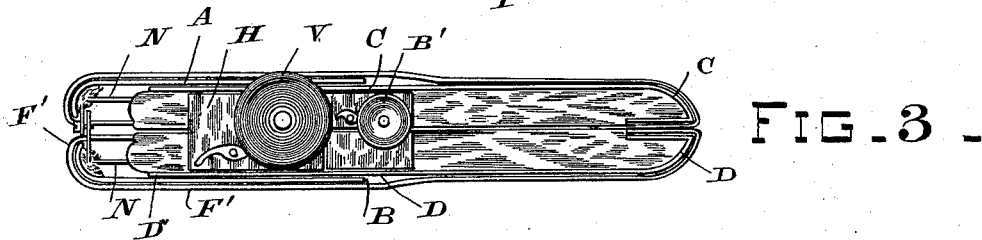
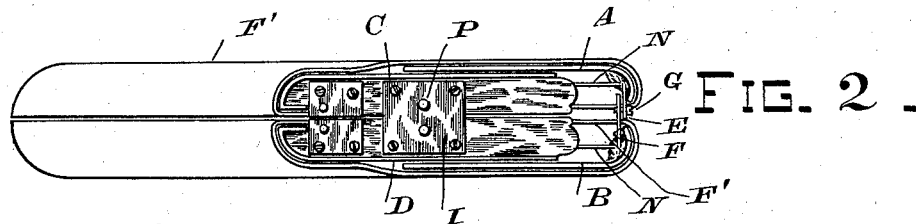
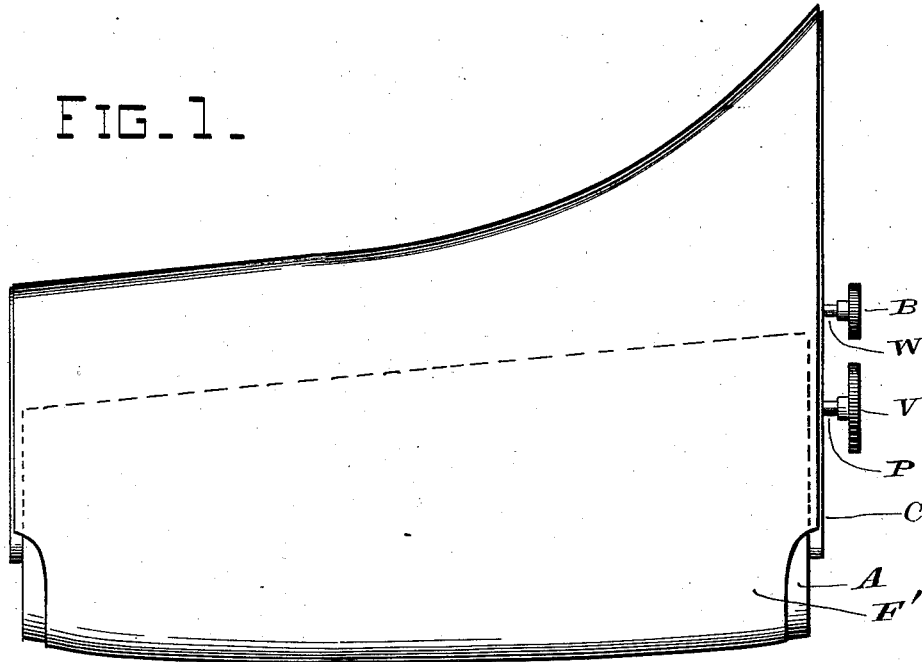
S. C. RUGLAND.

PRESS PAD FOR PANTALOONS.

No. 305,112.

Patented Sept. 16, 1884.

FIG. 1.



WITNESSES.

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FIG. 4.

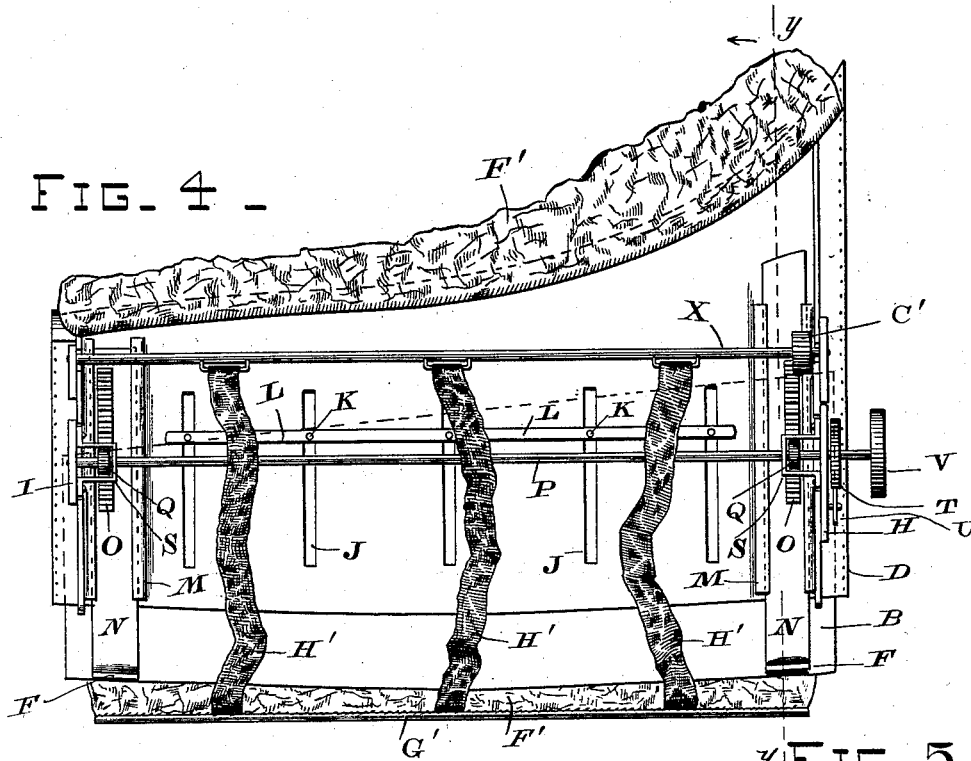
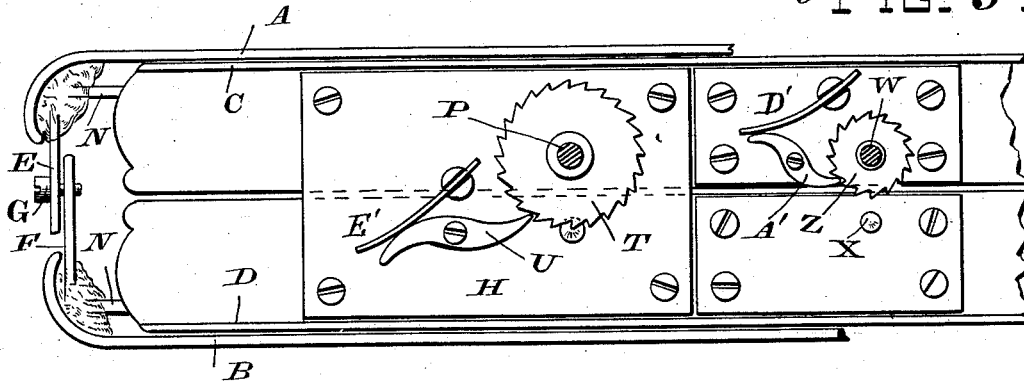


FIG. 5.



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FIG. 6 -

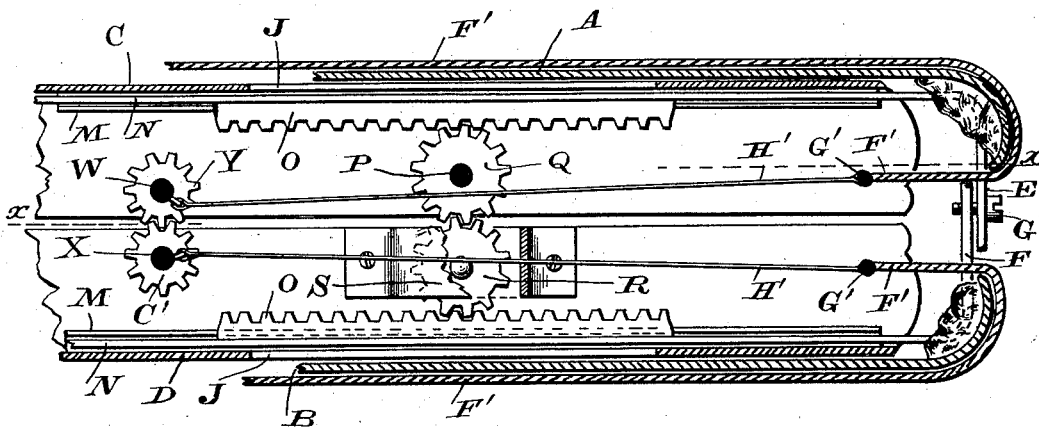
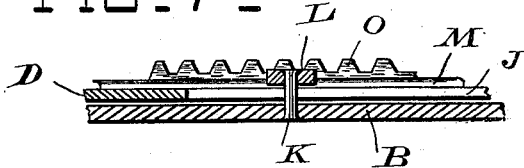


FIG. 7 -



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UNITED STATES PATENT OFFICE.

SAMUEL C. RUGLAND, OF SAN FRANCISCO, CALIFORNIA.

PRESS-PAD FOR PANTALOONS.

SPECIFICATION forming part of Letters Patent No. 305,112, dated September 16, 1884.

Application filed September 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL C. RUGLAND, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a certain new and useful Tailor's Press-Pad for Pantaloon-legs, of which the following is a specification.

My invention relates to an improved press-pad for the use of tailors in pressing out and giving form and set to the bottom of pantaloons; and the object of my improvement is to provide a press-pad capable of lateral extension or contraction, and one which will at all times present a smooth and even external surface. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of my improved press-pad. Fig. 2 is a face view of the inner end of the press-pad. Fig. 3 is a face view of the outer end of the press-pad. Fig. 4 is a horizontal sectional plan view on line *xx* of Fig. 6, showing the operating mechanism. Fig. 5 is a face view of the outer end of the press-pad, partially broken away, and showing the thumb-wheels removed. Fig. 6 is a vertical cross-section on line *yy*, Fig. 4, through the press-pad, showing the cog-wheels and racks. Fig. 7 is a detail view.

Similar letters refer to similar parts throughout the several figures.

My improved press-pad consists of four pieces of sheet metal, A, B, C, and D, bent into the form shown in the drawings, the upper and lower sections moving upon each other, and the front and rear sections being capable of being advanced toward or retracted from each other, as the necessities of the case may require. The rear or outer sections, A and B, are connected together, near either end of their rear edge, by means of the metal tongues E and F and screws or rivets G, while the front or inner sections, C and D, are connected together at their ends by the plates H and I, which form the bearing or journal plates for the main operating-shaft P.

In order to hold the front edges of the outer sections down snugly upon the outer faces of the inner sections, I provide the said inner sections with a series of transverse slots, J J, through which pass pins K K, riveted in the outer sections, and all connected together on

each inner face of the inside sections by a strip of strap-iron, L, which prevents the withdrawal of the said pins or rivets K K from their slots, and hold each upper and lower section of the pad closely in position.

Near each end of the front or inner sections, C and D, and upon the inside horizontal faces thereof, I attach the flanged guides M M, within which are reciprocated the flat bars or plates N N, provided upon their faces with the toothed racks O O, and firmly attached at their outer ends to the rear or outer sections, A B, while their inner ends are left perfectly free and loose.

P is the main operating-shaft, and is journaled in the end plates, H and I, and is provided upon the inner side of its bearings with cog-wheels Q Q, which mesh with the intermediate cogs or pinions, R, suitably attached by stirrups S to the end plates above mentioned, and meshing with the toothed racks traveling upon the lower section of the front plate, D, while the toothed racks upon the upper plate, C, mesh directly with the cog-wheels Q, as shown in Fig. 6. One end of the main shaft P is provided with a ratchet-wheel, T, and pawl U, for the purpose of holding the inner or front and outer or rear sections or plates in any set position, and this shaft is also provided with a milled head thumb-wheel, V, for the purpose of conveniently rotating the said shaft.

At a short distance from and running parallel with the shaft P, I journal in the end plates of the two front or inner sections of the press-pad the two shafts W and X, of which the upper one, W, is the driver, and is provided with an interiorly-set cog-wheel, Y, and an outwardly-situated ratchet-wheel, Z, and pawl A', and also with a turning wheel, B', as shown in Fig. 3. The shaft X carries a cog-wheel, C', which meshes directly with the cog on the shaft W, and from which it receives motion.

It should here be remarked that the pawls U and A' are provided with springs D' and E', which serve to keep the said pawls in constant contact with their respective ratchet-wheels.

At the front meeting edge of the inner or front sections, C and D, I attach the cloth covering F' F', which lies flat over the outer sur-

face of the press-pad, and may be stitched to the front and rear ends of said section, if so desired. Both pieces of cloth are then doubled or folded over the outer edges of the outer or rear sections, and passed through the space left between the said sections and the metal fastening-tongues E F, and carried into the body of the pad, as shown in Fig. 6. The loose ends of these cloths are braced by being stitched to a wire rod, G' G', and are attached by tapes H' H' to the shafts W and X, as shown in Figs. 4 and 6.

The manner of operating my improved press-pad will be as follows, to wit: The pantaloons having been brought into a proper condition for pressing and receiving the proper "set" at the bottoms of the legs, the press-pad is to be inserted at the bottom of the leg and the thumb-wheel B' turned in a reverse direction, which will cause the unwinding of the tapes from the shafts W and X and permit of the slackening of the cloth covering of the press-pad. The thumb-wheel V is now to be rotated in a reverse direction, which will spread the two front and rear sections of the pad farther apart, and this movement is to be continued until the increased width given to the pad causes it to neatly fill the interior of the pants-leg. The wheel B' is now turned in a forward direction, and the slack of the tapes H' H' is wound upon the shafts W and X, thereby

drawing in the cloth covering F' and causing it to lie flat and smooth upon the metal surface of the pad, and without any wrinkles to obstruct the action of the smoothing-iron or to crease the cloth during the process of pressing.

From the above it will be seen that I am enabled to provide a cheap and durable press-pad for tailors' use, and one that can be widened or narrowed to suit the width of any garment; and it should here be remarked that the means for operating this pad are equally applicable for press-pads for sleeves and other portions of wearing apparel.

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

A press-pad for tailors' use, having extensible front and rear sections, operated by a rack-and-pinion movement, and provided with a cloth covering fastened to the front edge of the pad, overlapping both sides of the same, and being wound upon shafts rotating within the body of the pad, substantially as shown, and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

SAMUEL C. RUGLAND. [L. s.]

Witnesses:

WILMER BRADFORD,
CHAS. E. KELLY.