(No Model.) 3 Sheets—Sheet 1.

E. D. WATERMAN.

MACHINE FOR ARRANGING AND PILING CLOTH.

No. 259,784. Patented June 20, 1882.

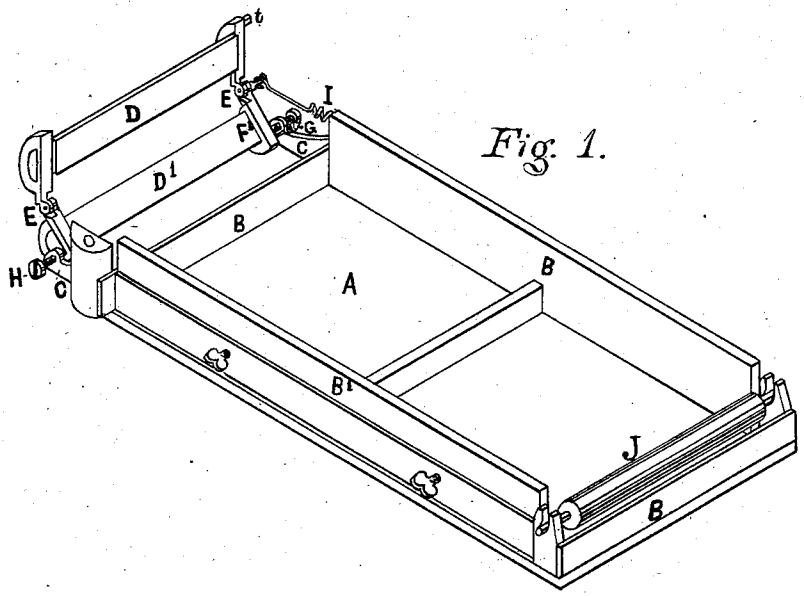
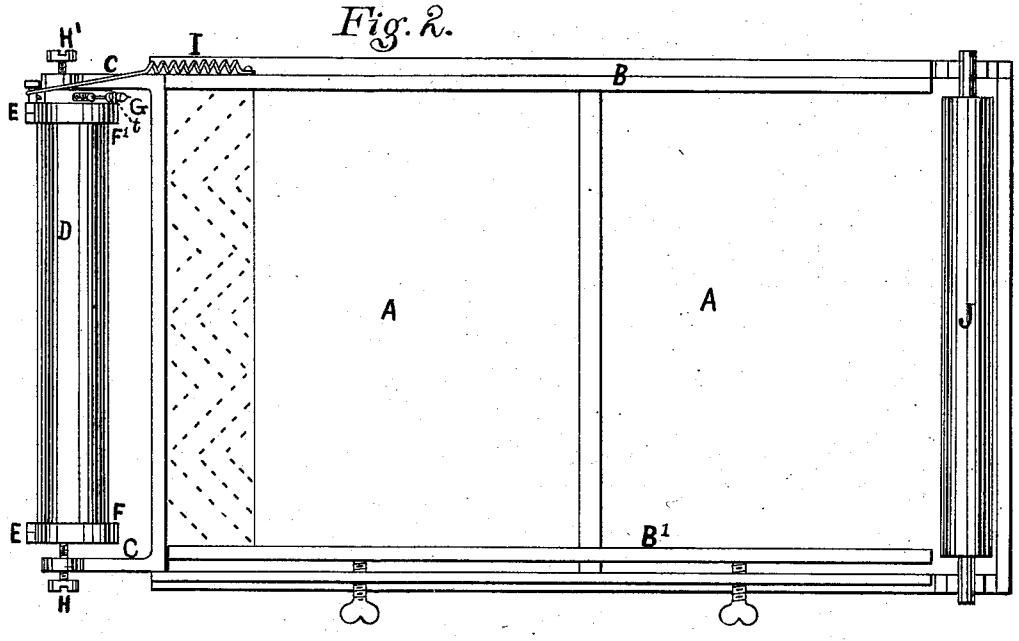


Fig. 1.

Fig. 2.



Witnesses;

A. G. Manning;

W. R. Marble

Inventor,

Edgar D. Waterman

By Sylvenus Walker

Attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

(No Model.) 3 Sheets—Sheet 2.

E. D. WATERMAN.

MACHINE FOR ARRANGING AND PILING CLOTH.

No. 259,784. Patented June 20, 1882.

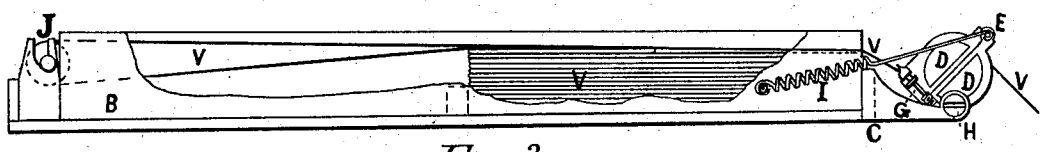
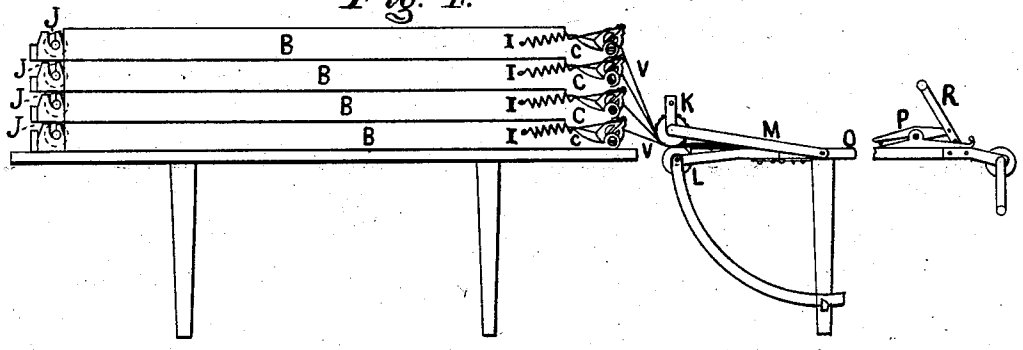


Fig. 3.

Fig. 4.



Witnesses;

H. C. Manning

W. R. Marble

Inventor,

Edgar D. Waterman

By Sylvenus Walker

Attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

(No Model.) 3 Sheets—Sheet 3.

E. D. WATERMAN.

MACHINE FOR ARRANGING AND PILING CLOTH.

No. 259,784. Patented June 20, 1882.

Fig. 5.

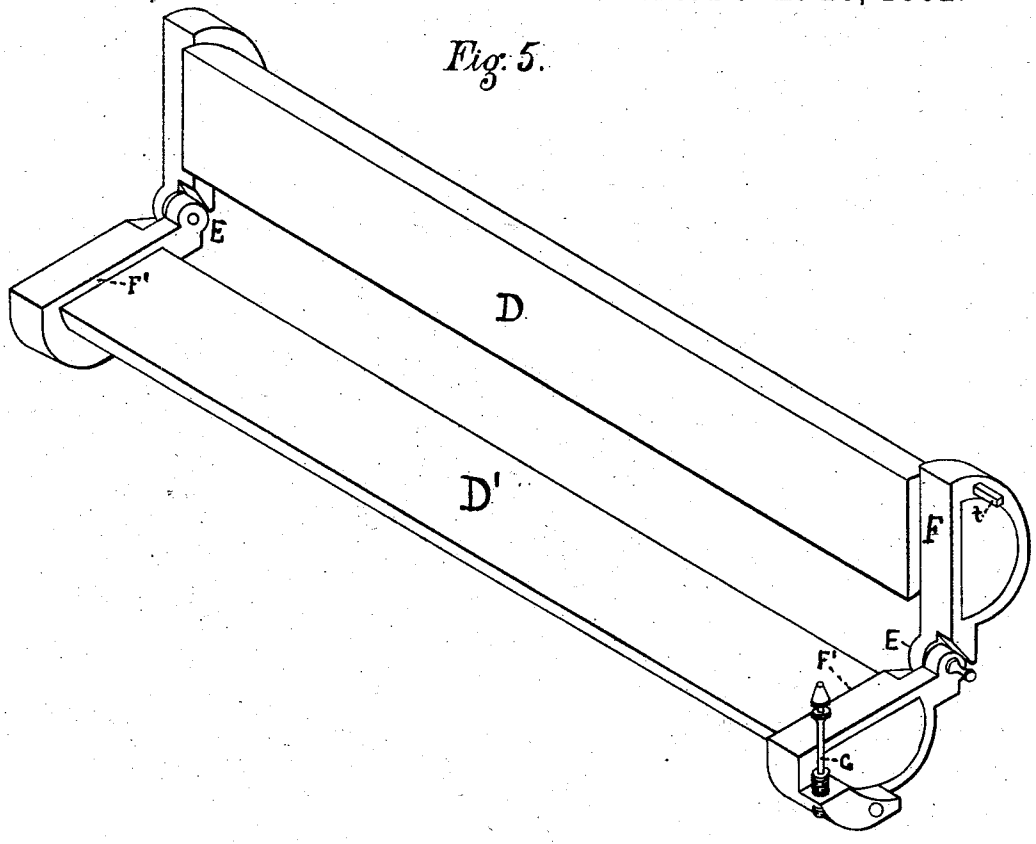
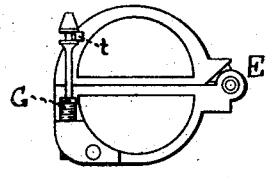


Fig. 6



Witnesses;

H. G. Manning,

W. R. Marble

Inventor;

Edgar D. Waterman

By Sylvenus B. Walker

Attorney

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

EDGAR D. WATERMAN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO ABNER J. TOWER, OF SAME PLACE.

MACHINE FOR ARRANGING AND PILING CLOTH.

SPECIFICATION forming part of Letters Patent No. 259,784, dated June 20, 1882.

Application filed April 20, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDGAR D. WATERMAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Machines for Arranging and Piling Cloth, &c., adapted for arranging, folding, and delivering cloth in layers preparatory to being cut into garments, of which the following is a specification.

The object of my invention is to provide a cheap, simple, and convenient machine or devices by which layers of cloth or other similar material may be spread one upon another in a smooth and even manner, so that each layer shall fall directly upon the one beneath, leaving their edges true and even in a vertical plane to any number desired, and each in the same exact position, preparatory to being cut into garments; and it consists in the construction, combination, and arrangement of a series of adjustable rectangular frames, each provided with a roll and adjustable pivoted tension-bars and guide-jaws, as hereinafter more fully described and set forth.

Figure 1 represents a perspective view of a cloth holding, guiding, and delivering frame having pivoted adjustable tension-bars connected therewith in open position. Fig. 2 represents a plan view of the same with the tension bars or jaws closed or in position for use. Fig. 3 represents a side elevation of the same. Fig. 4 represents an elevation of a series of said frames and devices placed one upon another and arranged upon a table in connection with pressure-rolls and cloth-holding devices. Fig. 5 represents a perspective view of the tension-bars open and drawn to an enlarged scale. Fig. 6 represents an end elevation of the same when closed.

A represents an oblong or rectangular frame, provided with vertical sides and ends B B′, one of said vertical sides, B′, being made adjustable horizontally by means of screws, or in any suitable manner, to adapt the said cloth-holder to the width of cloth arranged therein in folds, as hereinafter described. It will be seen that one end of said frame A is provided with extensions C, between which is pivoted a pair of adjustable tension-bars, D D′, hinged at each end by a joint, E, so as to permit the same to be opened, as shown, so as to receive between their faces the fabric or cloth V. The cloth is guided through or in the tension device by its edges, which move in contact with the guide or guides F F′, which project beyond the inner face of either one of the bars D or D′, the opening or space between such faces being made adjustable to the thickness of cloth by a screw-threaded spring-catch, G, the screw-thread of which engages in a corresponding hole formed in the lower guide-piece, F′, or end of tension-bar D′, and its upper end being provided with a circumferential groove, into which fits the projection or pin *t* of the upper tension-bar, D, or of the guide-piece F, secured to the upper bar, D, when the bars or hinged jaws D D′ are closed together upon the cloth. These tension-bars D D′ are adjustable laterally in relation to the cloth-frame A B by means of the screw-pivots H H′ passing through the said extensions C C, and their inner ends entering holes in the ends of the tension-bars or guide-pieces, so as to permit the said tension-bars D D′ to swivel or move on said pivots by undue tension of the cloth V in passing downward or upward through or between the inner faces of the same, which are held on an angle to the direct line of the cloth by a coiled or other suitable spring, I, connected at one end to the side piece, B, of the frame, the opposite end being formed with an eye, ring, or hook, by which it may be connected with or disconnected from the ends of the tension-bars D D′, as necessary to open the same when desired, or hold the same in their proper relative position, as shown. The several frames being supplied with folds of cloth, the upper or free end is first drawn back over the roll J, mounted in the rear end of the said frame, thence forward to the said tension-bars and between the same, and downward beneath the adjustable fluted pressure-roll K, which bears upon the lower supporting-roll, L. The pressure-roll K is journaled in the hinged arms M, connected to the bed-top or cutting-table O, upon which several layers or pieces of cloth are to be drawn, or so arranged from the series of cloth-frames A B,

placed one upon the other, as shown in Fig. 4, as to form a compact, uniform, and even pile of cloth preparatory to being cut into garments upon the said table O. The interior bottom surface of the said frames may be roughened, so as to hold or prevent the bottom folds of cloth from slipping back when being drawn therefrom.

Having thus described my invention, what I claim is—

1. The combination of the adjustable tension-bars, having a guide, with the adjustable holding-frame provided with a roll, substantially as and for the purposes set forth.

2. The adjustable hinged tension-bars, provided with a guide for the edge of the cloth, and an adjustable spring-catch, substantially as described, as and for the purposes set forth.

3. The combination of the pivoted adjustable tension-bars, having a guide and tension relief spring, with the cloth holder or frame, substantially as described, as and for the purposes set forth.

EDGAR D. WATERMAN.

Witnesses:
SYLVENUS WALKER,
ZADOCK S. WASHBURN.