(No Model.)

# T. DAVIS.

## DEVICE FOR STRETCHING, DRYING, AND BLEACHING FABRICS.

No. 371,038. Patented Oct. 4, 1887.

Fig. 1.

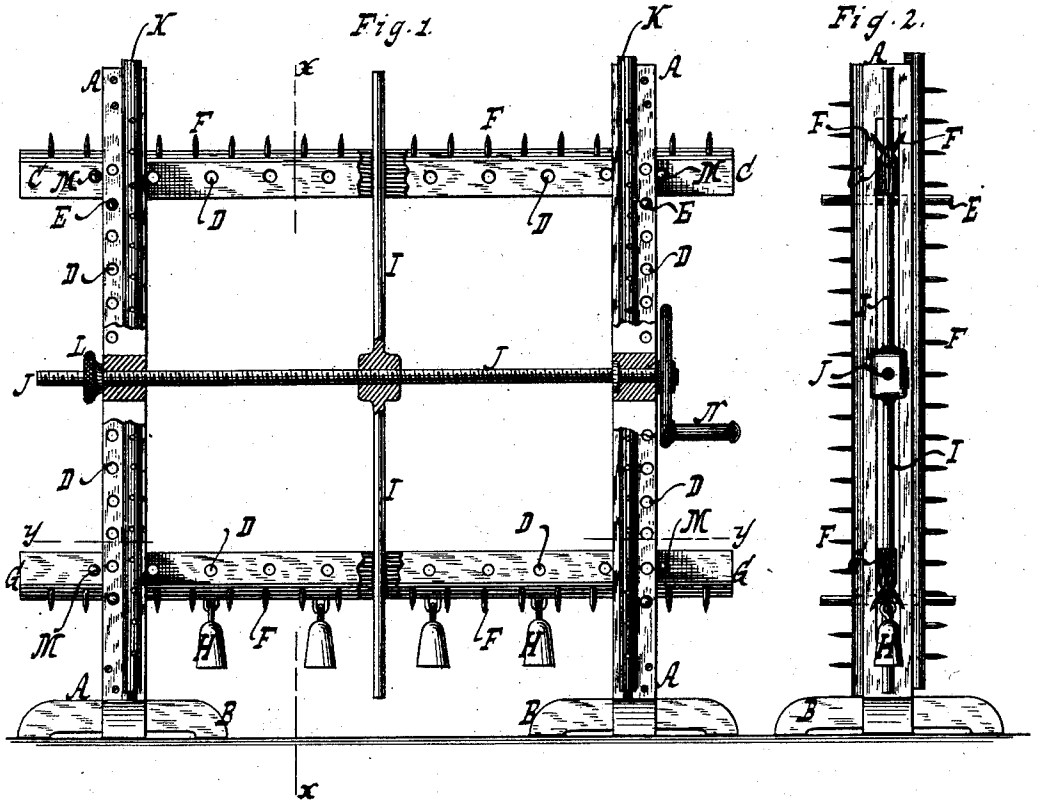
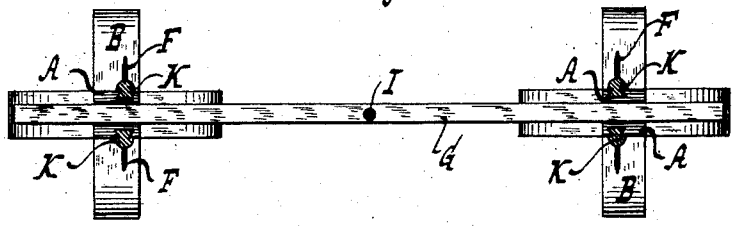



Fig. 2.




Fig. 3.




WITNESSES:

William Miller

A. Faber du Faur Jr.

INVENTOR

Thomas Davis.

BY

Van Santvoord & Hauff

his ATTORNEYS

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

# UNITED STATES PATENT OFFICE.

THOMAS DAVIS, OF NEW YORK, N. Y.

## DEVICE FOR STRETCHING, DRYING, AND BLEACHING FABRICS.

SPECIFICATION forming part of Letters Patent No. 371,038, dated October 4, 1887.

Application filed October 21, 1886. Serial No. 216,855. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS DAVIS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Devices for Stretching, Drying, and Bleaching Fabrics, of which the following is a specication.

The object of this invention is to provide a device or apparatus by which cloth or other fabrics can be readily stretched, dried, or bleached. I accomplish this object by means of the device set forth in the following specification and claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation, partly in section, of the device. Fig. 2 is a section in the plane *x x*, Fig. 1. Fig. 3 is a section in the plane *y y*, Fig. 1.

Similar letters indicate corresponding parts.

The letters A A indicate two standards or uprights of wood, metal, or other material, and suitably supported—as, for example, on bases or legs B. As seen in Fig. 2, the standards A are preferably slotted, so that the supporting-beam C and tension-beam G are free to move both longitudinally and transversely in the standards A. The standards A are provided with holes or perforations D for the insertion of pins or supports E. The supporting-beam C may be made to rest upon the pins E. Pins M, passed through holes D in the beams C G, prevent said beams from passing entirely out of the standards A. The beams C G are provided with pins, hooks, or prongs F. One edge of the fabric is attached by the pins F to the supporting-beam C. Another edge of the fabric is then similarly attached to the tension-beam G. By providing the tension-beam G with weights H a tension is brought upon the fabric applied to the apparatus. By making the weights H removable the tension can be diminished as needed by removing some of the weights.

In suitable guides or ways in the standards A are placed the side beams, K, in such a manner that said side beams can move in the direction of their length. Said side beams, K, are also provided with pins or prongs F, to which the side edges of the fabric can be attached.

The supporting-beam C and tension-beam G are connected by an arm, I, loosely passing through said beams. Said arm I can be actuated by a screw-thread, J, passing through a suitable hole tapped in said arm I. The screw-thread J can be actuated by a crank or handle, N. The motion of said screw-thread J can be arrested by a nut, L. The screw-thread J turns about a fixed axis, and by the motion of the screw-thread J the beams C G can be moved transversely. The beams can thus be transversely adjusted as desired.

My device will be found useful for drying fabrics—such, for example, as lace, cashmere, camel-hair fabrics, flannels, and fine fabrics—which may be injured by heat. By attaching the edges of the fabric to the supporting and tension beams and to the side beams said fabric will be dried and also stretched, as both the tension-beam and the side beams are free to move longitudinally. By placing the device with the fabric in the sunlight or into contact with a bleaching agent the fabric on the device will be bleached.

The tension and suspending beams are each provided with a double bevel on one edge, as seen in Fig. 2, and from the beveled surfaces project pins F at an angle with the vertical. By this construction the beams can be used to stretch fabrics upon either or both sides.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the slotted supports or standards A A, of the suspending-beam C, a weighted tension-beam, G, pins E E for supporting said beams, and the vertically-movable side beams, K K, supported in the standards, all of said beams being provided with pins F, substantially as described.

2. The combination, with the standards A A, having slots and guides or ways, of the suspending-beam C and tension-beam G, movable in said slots and each having a double-beaded edge, from which pins F project, means for supporting said beams, the weights H, and the vertically-movable side beams, K K, having pins F, substantially as described.

3. The combination, with the standards A A, of the side beams having longitudinal adjustment therein, the tension and suspending beams, the rod I, passing loosely through the

same, the screw J, engaging with a nut on said rod, and means for rotating said screw, substantially as described.

4. The combination, with a support or standards A A, a suspending-beam, C, and a tension-beam, of an adjusting-screw, J, communicating with said supporting and tension beams, and movable side beams, substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

THOMAS DAVIS. [L. S.]

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.