

H. D. GOLDSMITH.

Stretching-Machines for Bed-Bottoms, &c.

No. 147,319.

Patented Feb. 10, 1874.

Fig. 1

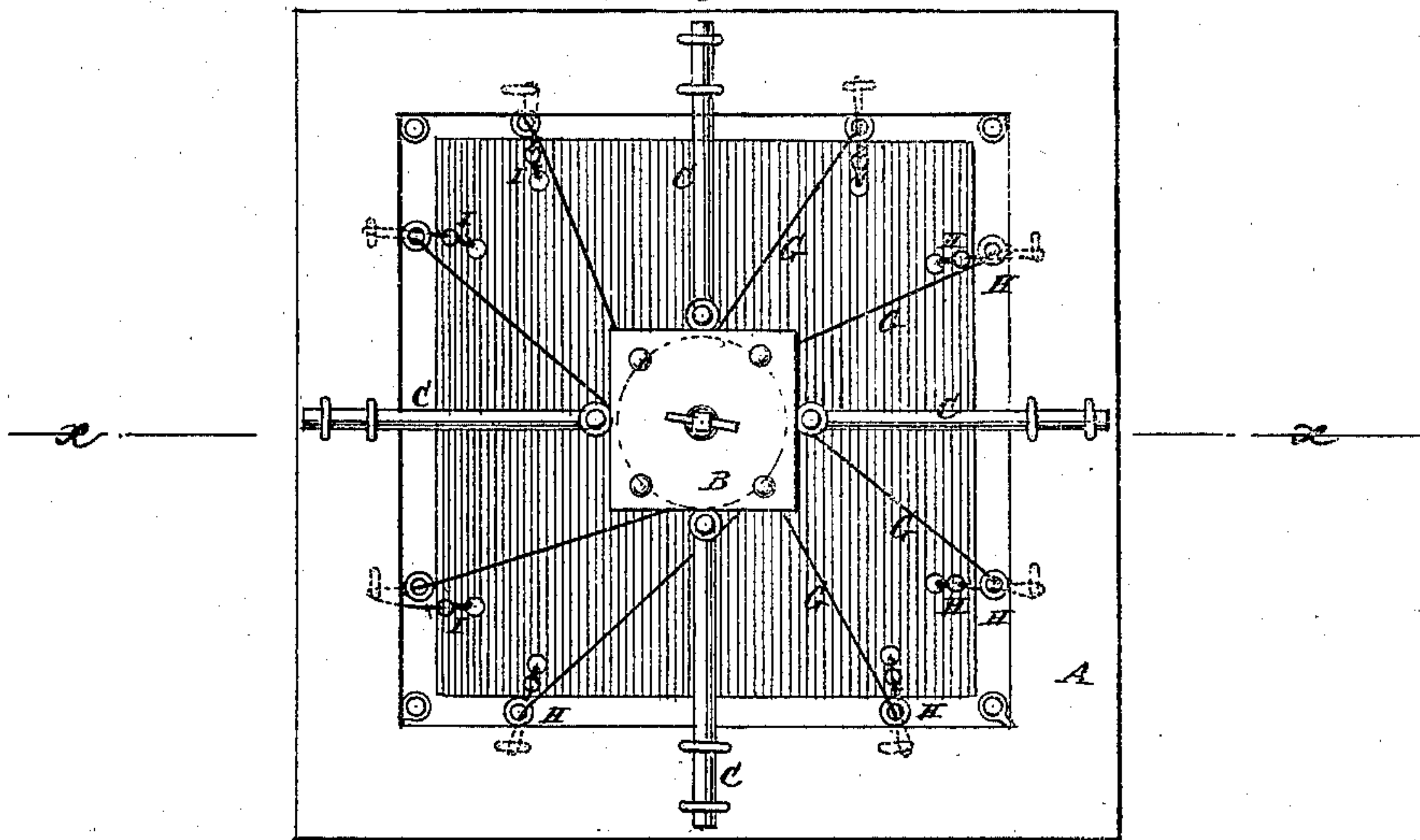


Fig. 2

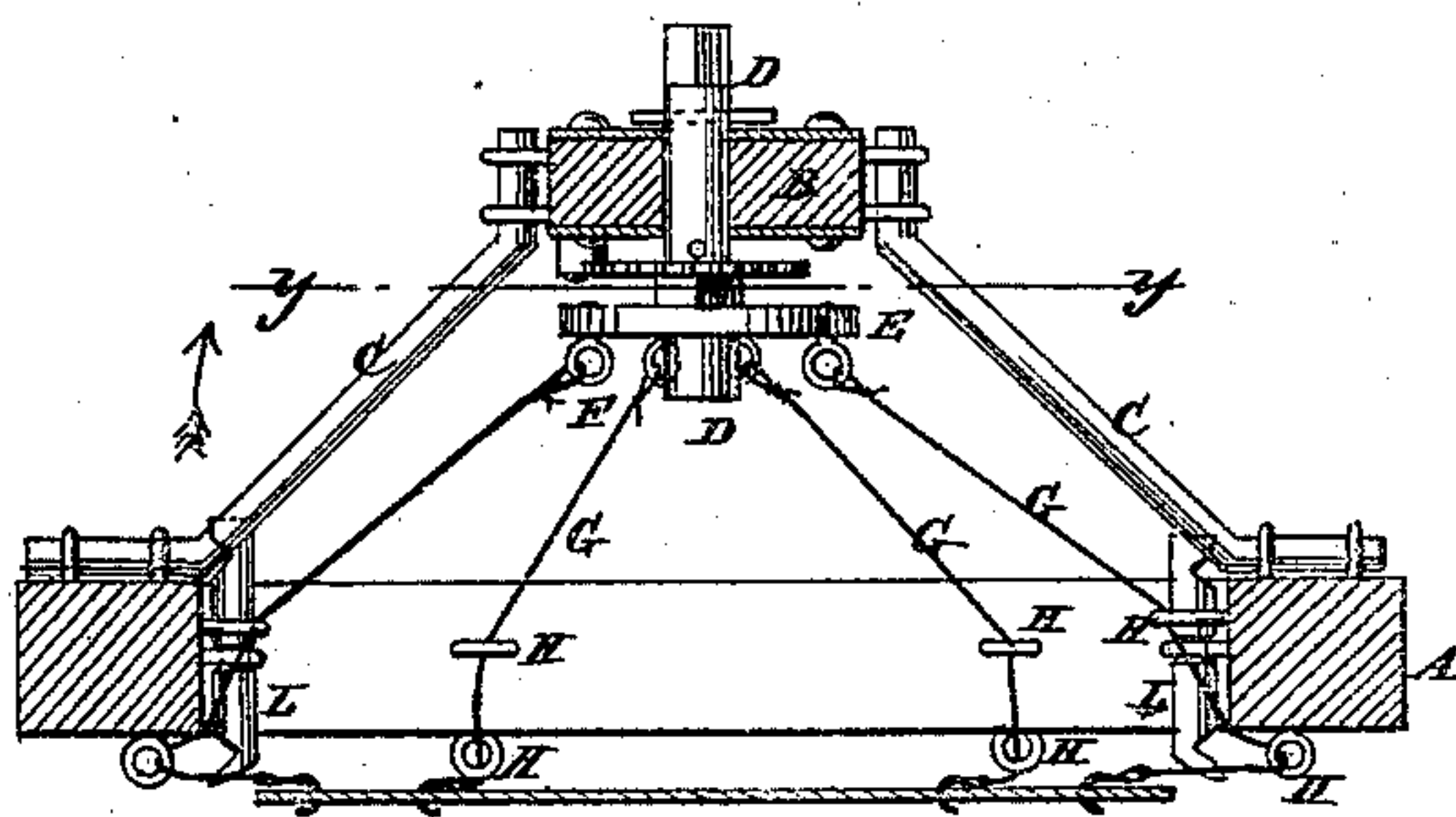
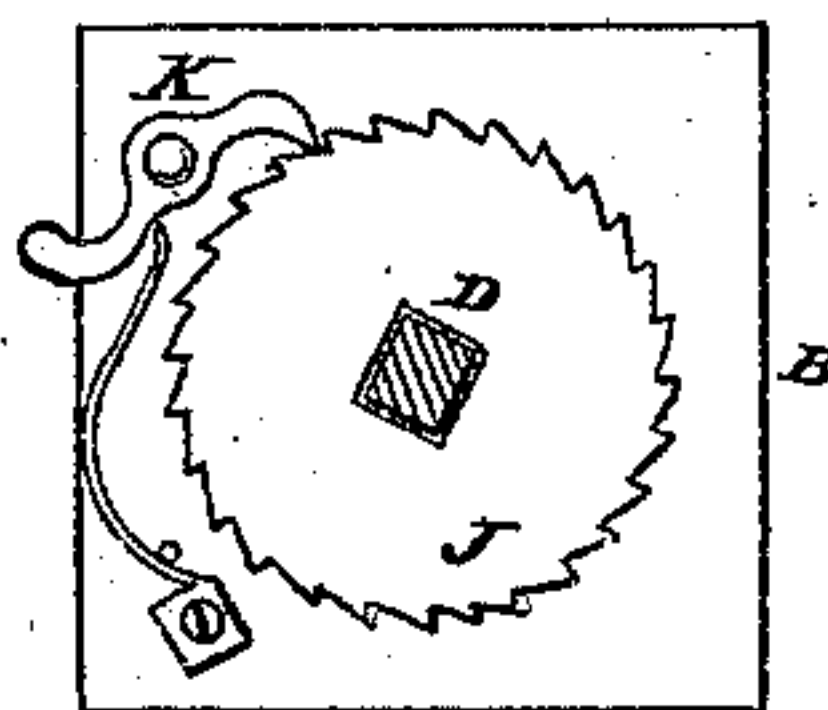


Fig. 3



WITNESSES:

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HENRY D. GOLDSMITH, OF NEW YORK, N. Y.

IMPROVEMENT IN STRETCHING-MACHINES FOR BED-BOTTOMS, &c.

Specification forming part of Letters Patent No. **147,319**, dated February 10, 1874; application filed November 1, 1873.

To all whom it may concern:

Be it known that I, HENRY D. GOLDSMITH, of the city, county, and State of New York, have invented a new and useful Improvement in Stretching-Machine, of which the following is a specification:

The object of this invention is to furnish better facilities than now exist for stretching canvas bed-bottoms, skins, leather, and all similar materials or articles, for drying or other purposes. The ordinary mode is to nail or tack the article to be stretched to a frame, or to some fixture, stretching it at the same time by means of nippers, or in some other way. Such an operation is tedious, besides being imperfect, as it leaves the article unevenly stretched, and, consequently, with an uneven surface. My invention consists in a machine, by means of which the article to be stretched is operated upon by a central screw, the construction of the machine being hereinafter more fully described.

In the accompanying drawing, Figure 1 is a top view. Fig. 2 is a vertical section of Fig. 1 taken on the line *x x*. Fig. 3 is a detail section, showing the ratchet and pawl, the section being on the line *y y* of Fig. 2.

A is a frame, to which the machine, as well as the article to be stretched, is attached. This frame may be a bedstead, and the article to be stretched may be a bed-bottom of canvas or other material. B is a central block or plate, supported by four (more or less) stanchions, C, attached to the frame by means of staples, or in any other suitable manner. D is a post, confined in the center of the block B by means of pins, as seen in Fig. 2, upon the lower end of which is a disk, E. F are eyes or holes in this disk, and G are cords attached thereto at one end. The other ends of these cords pass through eyes H, (one or more,) and take hold of the edge of the article to be stretched. H' represents the article to be

stretched. This hold may be taken by means of hooks I, which enter holes in the article, or the cords may have clamps or jaws attached to them, by means of which the article may be clamped and confined. These clamps may be made in any suitable manner, and may be used in any case where it is not desired to perforate the article. The cords G, being attached to the canvas, skin, or other article, and passed through the screw-eyes, are attached to the disk-eyes, which are opposite and nearest them. It will be seen that, by giving the disk a turn or partial revolution, the cords will be drawn taut, and the article be stretched equally from the center. The disk is revolved by means of a key or lever on the top of the post D. When sufficient tension is given the cords, the disk is held in position by means of the ratchet-wheel J on the post, and spring-pawl K on the block. By detaching the pawl from the ratchet, the tension may be increased or diminished with the greatest ease.

In using this machine for stretching a bed-bottom, it would be applied from the under side, and remain attached to the bedstead for that especial purpose, the slack being taken up as the cords or material stretched from use.

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

The frame A, having eyes H, the block B, connected therewith by stanchions C, and the post D, provided with a disk, E, having eyes F, in combination with the cords G, attached at one end to eyes F, passing through eyes H, and having end-hooks, all as and for the purpose described.

HENRY D. GOLDSMITH.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.