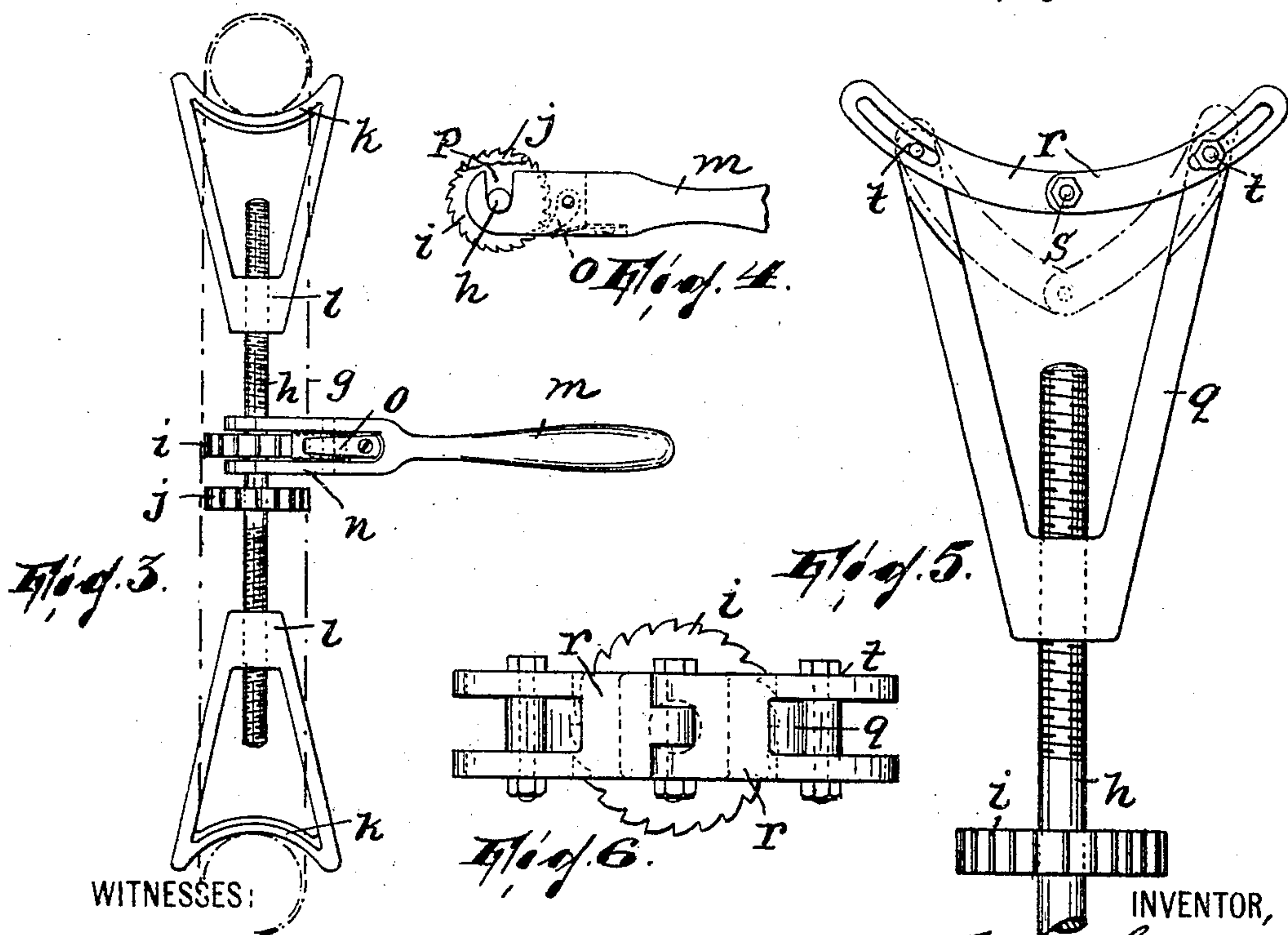
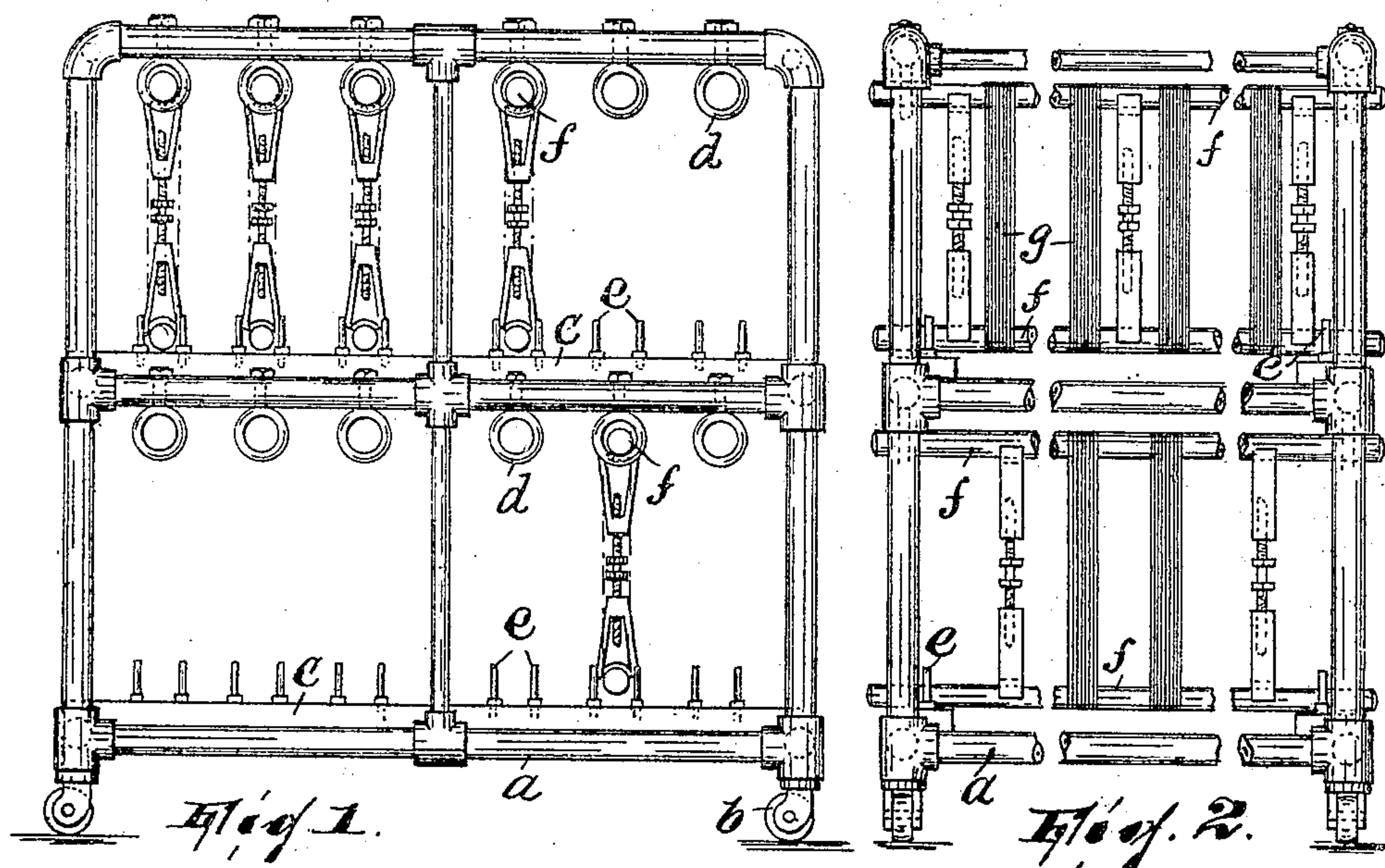


No. 795,547.

PATENTED JULY 25, 1905.

T. SCARAMUZZA.  
LUSTERING APPARATUS.  
APPLICATION FILED MAR. 9, 1905.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

TOMAS SCARAMUZZA, OF PATERSON, NEW JERSEY, ASSIGNOR OF ONE-THIRD TO FRANK PADULA AND ONE-THIRD TO FRANK SCARAMUZZA, OF PATERSON, NEW JERSEY.

## LUSTERING APPARATUS.

No. 795,547.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed March 9, 1905. Serial No. 249,231.

*To all whom it may concern:*

Be it known that I, TOMAS SCARAMUZZA, a citizen of the United States, residing in Paterson, Passaic county, New Jersey, have invented certain new and useful Improvements in Drying, Stretching, and Lustering Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My present invention relates to stretching and lustering silk in skeins; and it has for its object to provide a stretching means of such form that the skeins can be quickly and conveniently assembled in small lots, each in stretched condition, and thus be capable of being crowded into small space while undergoing drying and other treatment and of being handled with the minimum of difficulty and waste of time.

My invention has for a further object to provide a portable crate or truck in which to nest the skeins on the stretching means and then convey them into the drying-apartment.

I have fully illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a side view of the crate or truck, showing stretchers arranged therein. Fig. 2 is an end view of the crate or truck. Fig. 3 is a view in elevation of the stretcher. Fig. 4 shows its wrench. Fig. 5 illustrates a modification of the stretcher, and Fig. 6 is a plan of the modified form of the stretcher.

In the drawings, *a* is a crate or truck mounted on casters *b* and consisting of a framework of iron piping. *c* represents parallel wooden beams forming a part of the said crate or truck.

*d* represents eyebolts which are secured in the side portions of the crate or truck in opposite relation to each other. There may be as many of these as desired and a convenient size for the truck or crate will permit, and they may or may not be in tiers, one above the other, as shown. In the wooden beams under each eyebolt is a pair of pins *e*, set loosely therein, so that either or both may be removed. The purpose of these eyebolts and pins will be explained later.

*f* represents the poles on which the skeins *g* are placed. These are adapted to be forced apart and there held with the skeins on them by the following means: *h* is a screw having reverse threads, one at each end. On this screw in its middle portion are fixed two reversely-set ratchet-wheels *i* and *j*. On the threaded portions of the screw are pole-crotches, made in skeleton form of metal and having their pole-receiving and screw-receiving portions *k* and *l*, respectively, spaced approximately as far as half the length of the screw, so as to give a considerable range of movement thereto; and thereby accommodate various lengths of skeins.

Figs. 3 and 4 show a wrench for operating the screw, and so moving the crotches to and from each other. Here *m* is a handle having one end forked to receive a ratchet, (*i* or *j*), as at *n*, and carrying in the forked portion a pawl *o* to engage said ratchet. *p* denotes opposed recesses in the forked portion adapted to receive the screw, and thus provide a fulcrum for the wrench.

In order to accommodate poles of different diameters, the crotches may have their pole-receiving portions adjustable, as in Figs. 5 and 6. The body *q* of the crotch is here shown as of fork shape and in its ends carries two arc-shaped members *r*, pivotally connected together at *s* and having a slot-and-bolt connection *t* with each end of the fork. These may be adjusted to any position and then clamped up tight at the slot-and-bolt connections.

The skeins having been placed over the poles and the latter set in the crotches and then forced apart to put the skeins under tension, each such unit is hung in the truck or crate with the ends of one pole in a pair of eyebolts and the other between two pairs of pins *e*. The pins being removable, the operation of arranging each unit in the truck or crate can be effected with convenience and without damage to the silk. When thus arranged, the loaded truck or crate may be moved into the drying-room and there left until the drying is complete.

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

1. In a skein stretching and lustering apparatus, the combination of the poles and



pole-spacing means, consisting of reversely-threaded screws, crotches on opposite end portions of said screws engaging said poles, each crotch having a curved seat at its outer end to receive a single pole and having the screw-receiving portion thereof spaced from the seat approximately half the length of the screw, and ratchets fixed on said screws, substantially as described.

2. The combination, with a series of stretching apparatuses comprising poles and means for spacing them, of a crate or truck, eyebolts arranged in said crate or truck and adapted to receive the ends of one of said poles in each stretching apparatus, and removable pins also arranged in said crate and adapted to receive between them the other pole in each stretching apparatus and thus confine the latter against movement in the eyebolts, substantially as described.

3. In a skein stretching and lustering apparatus, the combination of the poles and pole-spacing means consisting of reversely-threaded screws, crotches of skeleton form having screw-receiving portions at their inner ends and adjustable curved seats at their outer ends, each seat receiving a single pole, and being spaced from the screw-receiving portion of the crotch approximately half the length of the screw, and means engaging said screws for actuating the same, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of February, 1905.

TOMAS SCARAMUZZA.

Witnesses:

JOHN W. STEWARD,  
WM. D. BELL.