

J. Kuttner,

Tankless Looms.

No. 112,356.

Patented Mar. 7. 1871.

Fig. 1.

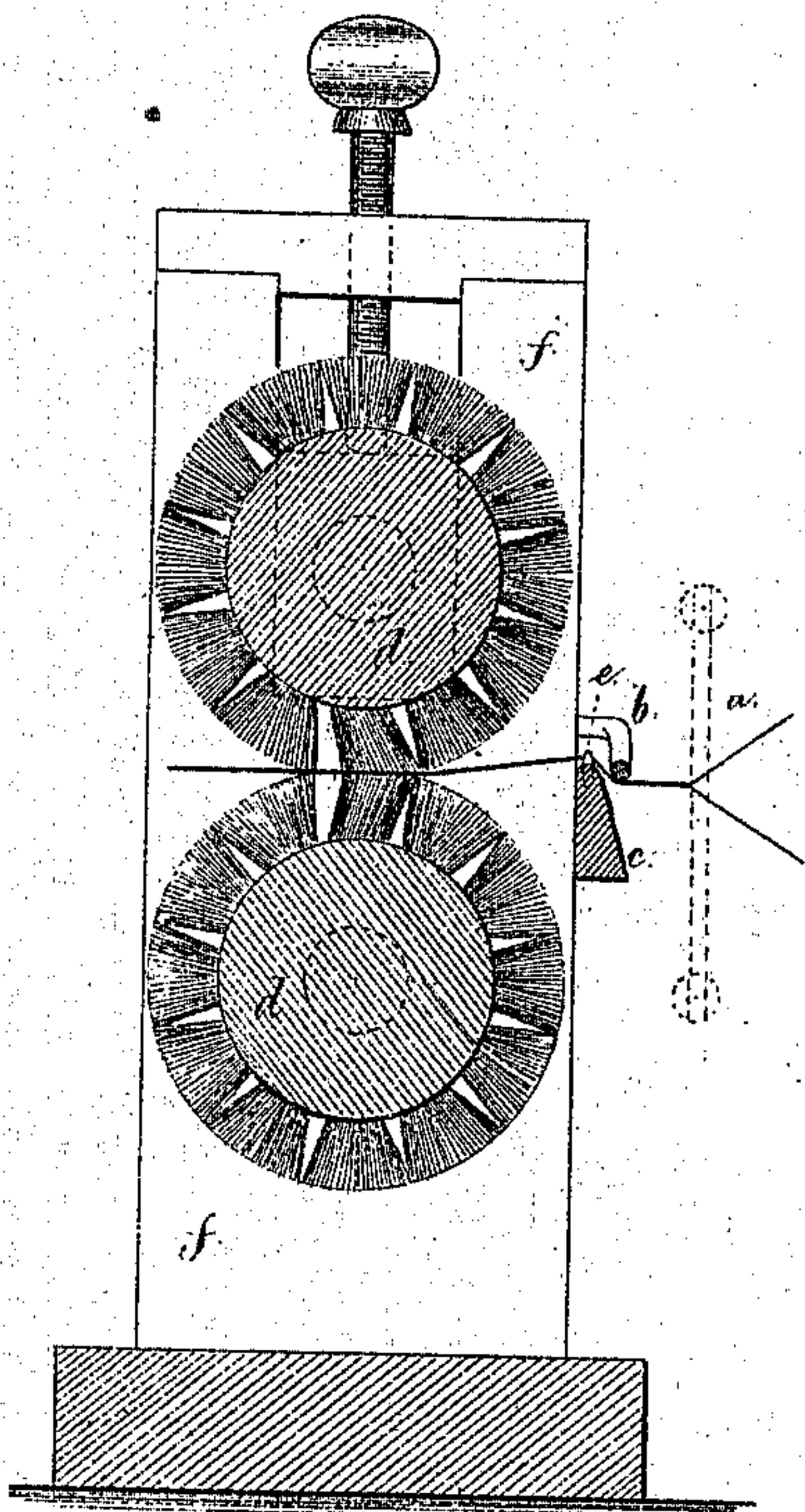
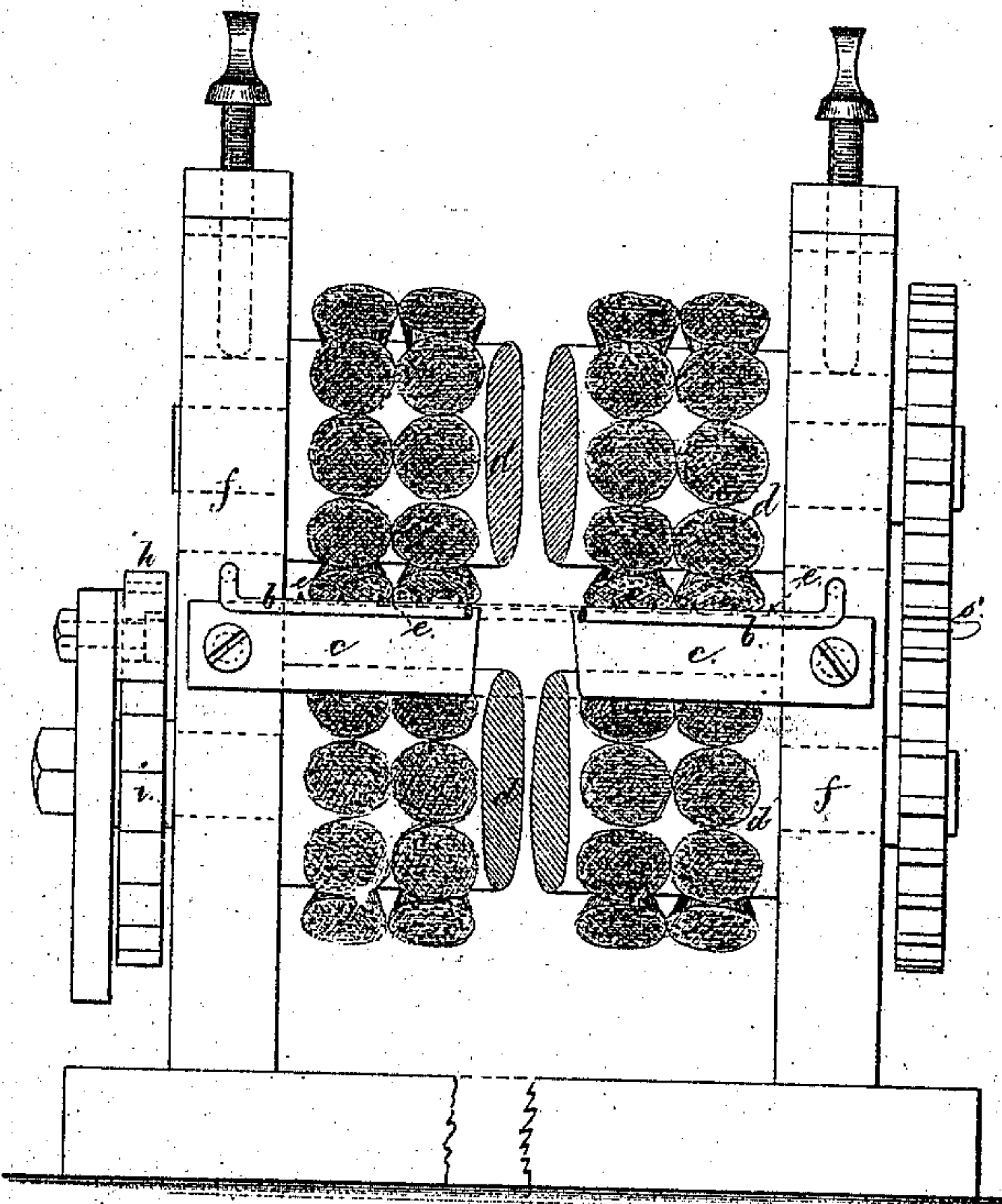


Fig. 2.



Witnesses

Chas. H. Smith

Geo. A. Werner

Julius Kuttner
L. W. Perrell

attys.

UNITED STATES PATENT OFFICE.

JULIUS KUTTNER, OF NEW YORK, N. Y.

IMPROVEMENT IN TAKE-UPS FOR CORSET-LOOMS.

Specification forming part of Letters Patent No. **112,356**, dated March 7, 1871.

To all whom it may concern:

Be it known that I, JULIUS KUTTNER, of the city and State of New York, have invented and made a new and useful Improvement in Take-Up for Corset-Looms, &c.; and the following is declared to be a correct description thereof.

Corset-loomers have been made in which the warps pass away from separate spools, and the filling is laid in such a manner as to form gores or gussets, and thus produce a fabric that is longer at one place than at another; hence the take-up could not be by means of a pair of rollers, because some warps had to be drawn along faster than others. To effect this the take-up roller has been made in sections, and operated separately by connections to the jacquard. This is costly and not always reliable, and sometimes the fabric is pulled too tightly in some places and not enough in others.

The present invention is made for simplifying the take-up apparatus and rendering its action more uniform.

The lay in its vibration draws the warps along a distance proportioned to the filling introduced, and the woven fabric passes over a row of holding-pins, and is drawn along to take up the slack and strike the fabric on such pins by the action of revolving brush-rollers that slip upon the portions of the fabric that are not moving as fast as its own surface, but take up the slack that may be produced in the weaving and forced forward by the lay.

In the drawing, Figure 1 is a vertical cross-section of the take-up apparatus, and Fig. 2 is an elevation, showing the end portions of the same.

The jacquard, lay, shuttle, warp-spools, and actuating mechanism are of the character well known in looms, especially in those adapted to weaving corsets. I have represented a portion of the reeds of the lay at *a*.

The fabric as woven passes below the bar *b* and up over the cross bearing-bar *c*, in the edge of which pins *e e* are introduced. These perforate the fabric, and are sufficiently strong to hold the goods in the position in which they may be placed.

A pair of rollers, *d d*, is mounted in the frame *f* and geared together by the wheels *g*, and to these rollers a progressive movement is given by a pawl, *h*, and ratchet *i*, that act at the time the lay comes up to press or beat the weft or filling-thread to its place. These rollers *d d* do not gripe the cloth, as usual in take-up apparatus, but they draw the fabric along by a yielding frictional contact derived from bristles or similar projecting fibers or plush, that takes a sufficient hold of the fabric to draw it along as the beat-up takes place, the action of the beat-up being to lift the fabric off the pins *e*, and, as the lay recedes, the material draws down upon the points of the pins, and is by them firmly held. Thus this take-up acts to keep the edge that is being woven in a straight line, whether the weft is laid all across or whether gussets or gores are being woven.

I claim as my invention—

1. The rollers *d*, having yielding surfaces of bristles or their equivalents, to form a take-up in a loom for weaving corsets or gored articles, substantially as set forth.

2. The rollers *d*, having surfaces of the character specified, in combination with the pins *e*, bar *b*, and loom for weaving corsets and similar gored articles, all arranged and operating as set forth.

Signed by me this 30th day of December, 1870.

JULIUS KUTTNER.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.