A. H. Hook,
Collar Machine.

No. 46,669. Patented Mar. 7, 1865.

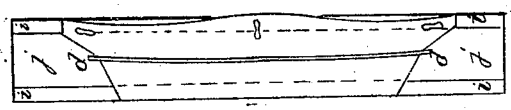

Fig. 3

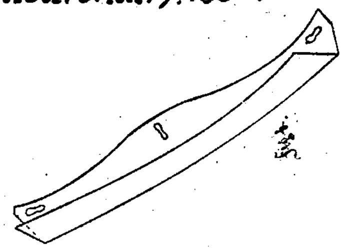

Fig. 4

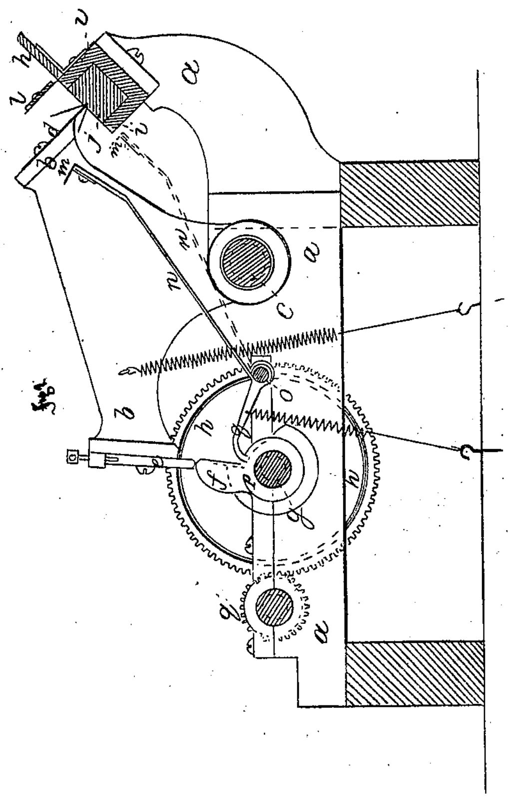

Fig. 1

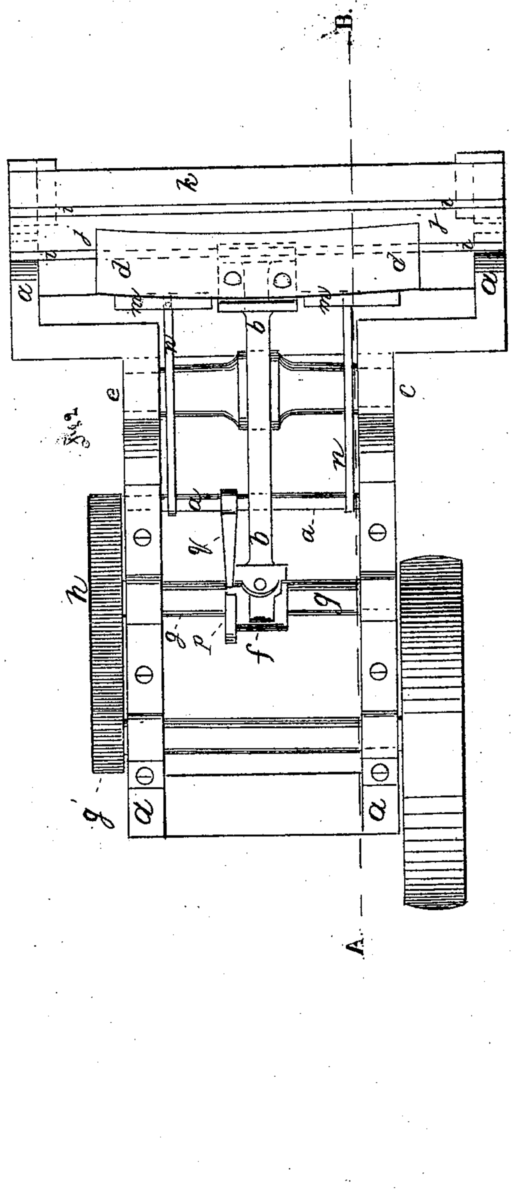

Fig. 2

Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT H. HOOK, OF NEW YORK, N. Y.

IMPROVEMENT IN APPARATUS FOR FOLDING PAPER COLLARS.

Specification forming part of Letters Patent No. **46,669**, dated March 7, 1865.

To all whom it may concern:

Be it known that I, ALBERT H. HOOK, of the city, county, and State of New York, have invented a new and useful Machine for Folding or Creasing Paper Collars; and I do hereby declare the following to be a full and exact description thereof, reference being had to the annexed drawings and the letters of reference marked thereon.

In these drawings, Figure 1 represents a vertical section in line A B of Fig. 2. Fig. 2 is a plan view of the complete machine. Fig. 3 shows a plan view of the box containing the elastic material, with a collar placed thereon, and the edge of the knife which makes the crease. Fig. 4 is a perspective view of a collar when folded.

The machine consists of a suitable frame, *a a*, in which is pivoted a strong lever, *b b*, its journals being at *c c*. At one end of this lever there is a strip of sheet-steel, *d*, the lower edge of which is made sharp. The other end of the lever is fitted with a steel piece, *e*, which bears upon a cam, *f*, and is made adjustable up and down, for the purpose of changing the dip of the knife *d*. The cam *f* is attached to a horizontal shaft, *g*, having its bearings in the sides *g'*, gearing into a cog-wheel of frame *a a*, and is driven by a pinion, *g'*, gearing into a cog-wheel, *h*, or by any other suitable means. The box *i*, containing the elastic material *j*, is also supported by the sides of frame *a*, and is placed in an inclined position, so as to facilitate the feeding in of the collars, and also their discharge, as they will drop out of the machine without any additional mechanism for that purpose. A platform, *k*, also inclined, is fastened to the front of said box, and a guard, *l*, in front of the knife, may be placed there to prevent the operator from getting his fingers accidentally under the knife.

Immediately behind the box *i*, containing the elastic material, there are two gages, *m m*, against which the hind edge of the collar rests previous to the descent of the knife. These gages, being adjustable back and forth determine the locality of the fold in the collar, and, being attached by arms *n n* to a rock-shaft, *o*, receive a motion upward, immediately after the folding operation has taken place, so as to afford the folded collar the necessary space to drop out of the machine. This up motion is obtained from a cam, *p*, operating an arm, *q*, on rock-shaft *a*. In Fig. 1 the gages are shown in red lines in their proper position for feeding the collar under the knife, and in black lines in their elevated position, when the folded collar is required to drop out.

Having now fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The elastic folding-surface in an inclined position, on which the knife acts in folding as described, in combination with the gages *m*, substantially as and for the purposes set forth.

ALBERT H. HOOK.

Witnesses:

H. L. HERING,

ROBT. F. MACOY.