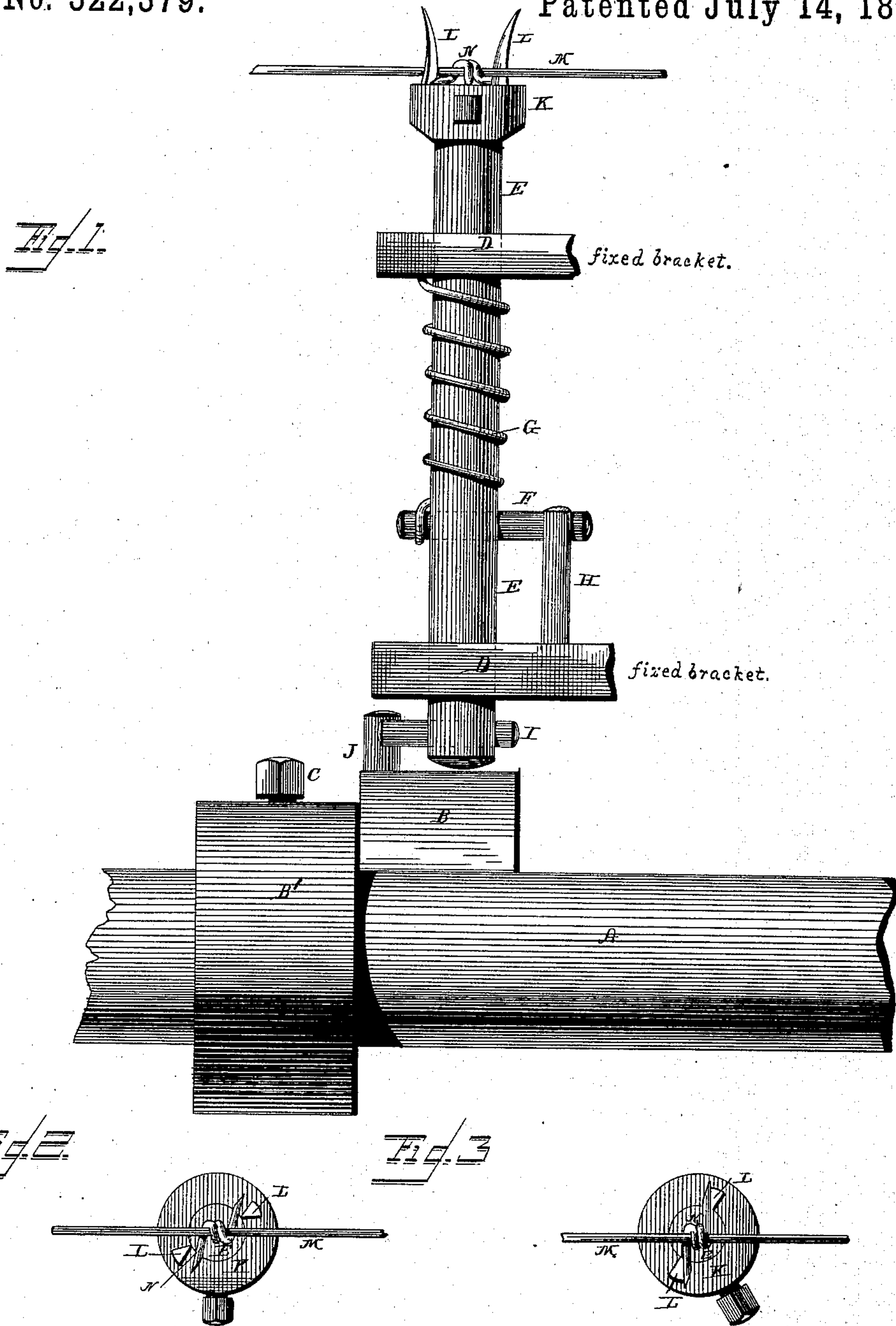


(No Model.)

A. JORGENSEN.
BARB STRAIGHTENING AND COMPRESSING ATTACHMENT FOR WIRE
BARBING MACHINES.

No. 322,379.

Patented July 14, 1885.



WITNESSES
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UNITED STATES PATENT OFFICE.

AXEL JORGENSEN, OF DES MOINES, IOWA, ASSIGNOR TO WILLIAM L. CARPENTER, OF SAME PLACE.

BARB STRAIGHTENING AND COMPRESSING ATTACHMENT FOR WIRE-BARBING MACHINES.

SPECIFICATION forming part of Letters Patent No. 322,379, dated July 14, 1885.

Application filed May 7, 1885. (No model.)

To all whom it may concern:

Be it known that I, AXEL JORGENSEN, a resident of Des Moines, in the county of Polk and State of Iowa, have invented certain new and useful Improvements in Barb Straightening and Compressing Attachments for Wire-Barbing Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved barb straightening and compressing attachment for wire-barbing machines. Fig. 2 is a top view showing the position of the barb on entering the straightening and compressing device, and Fig. 3 is a similar view showing the barb straightened and compressed.

The same letters refer to the same parts in all the figures.

This invention relates to an improved attachment for wire-barbing machines, the object of which is to straighten and compress the barbs and to set the points at right angles to the main strand or strands of the wire; and it consists in the improved construction and arrangement of parts for accomplishing this result, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates the main shaft of a wire-barbing machine of any suitable construction, upon which a cam, B, is secured adjustably by means of a set-screw, C, and the collar B'.

D D designate the ends of a pair of fixed brackets, affording bearings for a vertically-sliding stem or shaft, E, adapted to rest upon and be actuated by the cam B, and having a laterally-extending pin or arm, F, between which and the upper bracket D is arranged a spring, G, coiled upon the stem E, and having its ends attached to the said bracket D and the pin F, so that the tension of the said spring shall serve not only to force the stem E in a downward direction, but also to force the arm F into contact with a pin or lug, H, extending upwardly from the lower bracket D. The lower end of the stem or shaft E has a laterally-extending pin, I, adapted to engage and to be

operated by a pin, J, extending radially from the cam B. The upper end of the stem or shaft E is provided with a head, K, having on diametrically-opposite sides a pair of upwardly-extending horns, L L, between which the strand or strands M of the main wire may pass, after being provided with the barbs N in the barbing-machine, which is not shown in the drawings.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. When the main shaft revolves, a vertical reciprocating motion is imparted to the stem or shaft E by means of the cam B and spring G. When the stem E is at its lowermost point, the strand M, coming from the barbing machine, where it has been equipped with the barb N, traverses it, so that when the stem E rises the strand M and barb N shall be caught between the horns or jaws L L of the head K. When stem E reaches its highest point, the pin J strikes the pin I, thus twisting or turning the stem E against the tension of the spring G, and causing the jaws L L to compress the barb, as shown in Fig. 3, and set the points at right angles to the main strand M. As soon as the pin J has passed the pin I, the spring G restores the stem E to its normal position, with the arm F in contact with the stud H, and the stem E now descends, so as to release the finished barb, which passes on, so as to make room for the next barb to be operated upon.

This device, as will be seen, is exceedingly simple in construction, as well as effective in its operation, and it may be readily attached to a wire-barbing machine of ordinary construction.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a barb straightening and compressing attachment for wire-barbing machines, the combination, with a vertical sliding stem movably secured in fixed brackets, of a head secured to one end thereof, provided with two forwardly-projecting jaws or pins, a transverse pin through said stem near its central part, a spring engaging with one end of said pin and with one of said brackets, a pin in one of said

brackets engaging with the other end of said transverse pin, a second transverse pin through said stem near one end, and an adjustable cam secured upon a revolving shaft
5 and provided with a pin, said cam and pin engaging with the lower end of said stem and second transverse pin, all arranged and operating as described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

AXEL JORGENSEN.

Witnesses:

J. W. HILLIS,

WM. D. FOOTE.