

W. AIKEN.
Screw Blank Feeders.

No. 149,627.

Patented April 14, 1874.

Fig. 1.

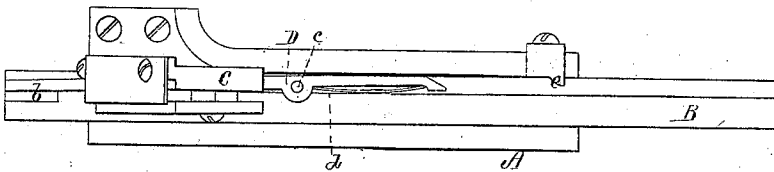


Fig. 2.

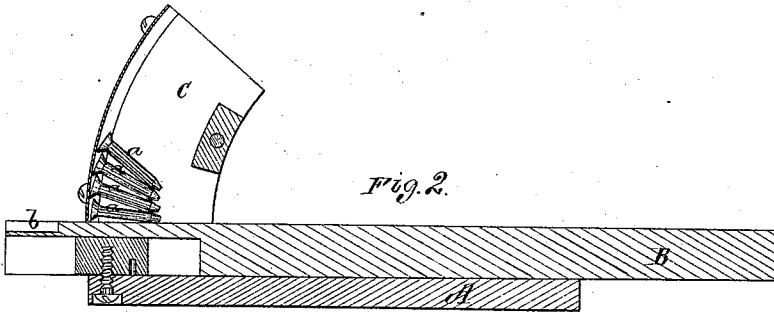


Fig. 3.

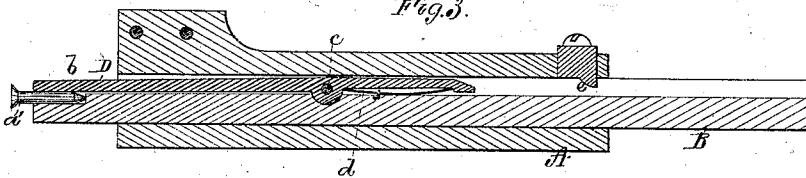
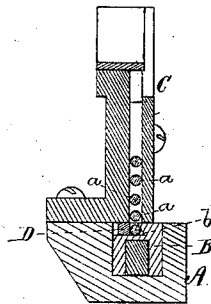


Fig. 4.



Witnesses.

J. N. Phipps.

L. N. Holden.

Walter Aiken.

by his attorney

R. H. Eddy

UNITED STATES PATENT OFFICE.

WALTER AIKEN, OF FRANKLIN, NEW HAMPSHIRE.

IMPROVEMENT IN SCREW-BLANK FEEDERS.

Specification forming part of Letters Patent No. **149,627**, dated April 14, 1874; application filed March 25, 1874.

CASE No. 1.

To all whom it may concern:

Be it known that I, WALTER AIKEN, of Franklin, of the county of Merrimack and State of New Hampshire, have invented a new and useful Improvement in Mechanism for Feeding Screw-Blanks to the Jaws of the Rotary Arbor of a Screw-Threading Machine; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a longitudinal section, Fig. 3 a transverse section, and Fig. 4 a horizontal section, of my new or improved feeder for screw-blanks.

In such drawings, A is a metallic bed plate or bar, grooved rectilinearly and longitudinally to receive and guide the feed-bar B. A receiver or fountain, formed as shown at C, for receiving and holding a series of screw-blanks, arranged one over the other, as represented at *a a a*, projects up from the bed-plate A and over the feeder B. The said feeder has a recess or notch, *b*, made in its side at its front end, to operate with a lever, D, in holding a screw-blank by its shank on its being dropped from the receiver into such notch. The lever pivoted to the feeder, as shown at *e*, is provided with a spring, *d*, fixed to the feeder, and arranged, as represented, to bear against the rear arm of the lever. Furthermore, there is projected from the base-bar a cam or inclined plane, *e*, it being arranged as seen in Fig. 1.

During the retreat or rearward movement of the feed-bar, and at the proper time, the lever will be moved by the cam, so as to enable a screw-blank to fall from the receiver into the notch in the feeder. Immediately on the feeder commencing to advance, the lever will be carried away from the cam, and by the spring will be closed upon the shank of the blank, so as to hold it in the notch, with the head of the blank projecting beyond the contiguous end of the feed-bar, as shown at *a'*, Fig. 3. On the screw-blank being seized by its head by the jaws of the mandrel, it will be drawn out of the notch of the feeder, while the feeder may be next retracted, and as the notch of the feeder may be drawn underneath the discharging-mouth of the receiver, another blank will fall down into the notch. Thus, by the means described, the blanks will be successively removed from the receiver and delivered to the jaws of the mandrel for being threaded.

I claim—

The notched feed-bar B, the lever D, the spring *d*, the blank-receiver *c*, the grooved bar A, and the cam *e*, constructed and combined substantially in manner and to operate as and for the purpose specified.

WALTER AIKEN.

Witnesses:

R. H. EDDY,
J. R. SNOW.