

(No Model.)

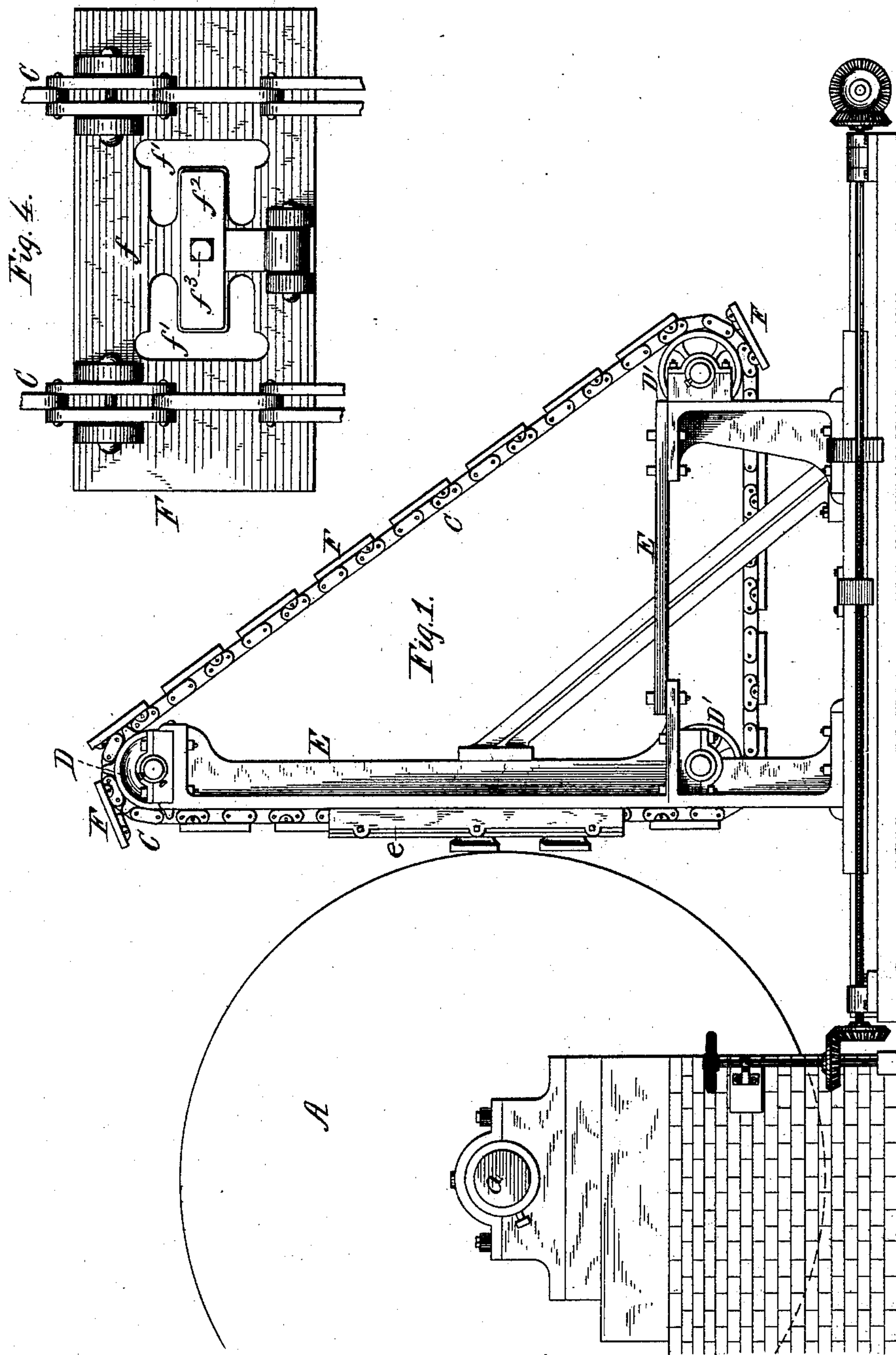
2 Sheets—Sheet 1.

J. W. RENSHAW & S. H. PERIN.

MACHINE FOR GRINDING SAD IRONS.

No. 338,301.

Patented Mar. 23, 1886.



Witnesses:
W. C. Jindumston.
Arthur L. Boutillier.

Inventors:
John W. Renshaw
Saml. H. Perin
by Parkinson & Parkinson
their Attorneys.

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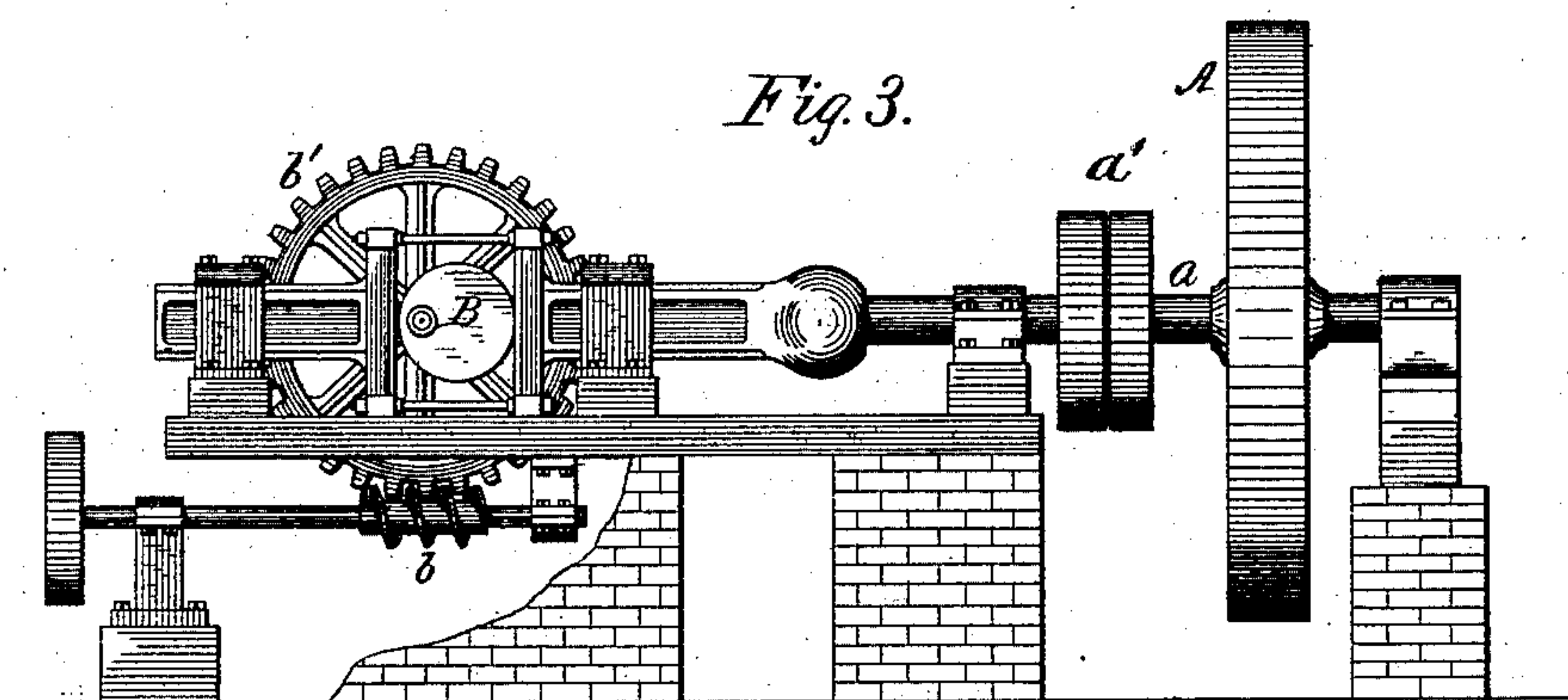
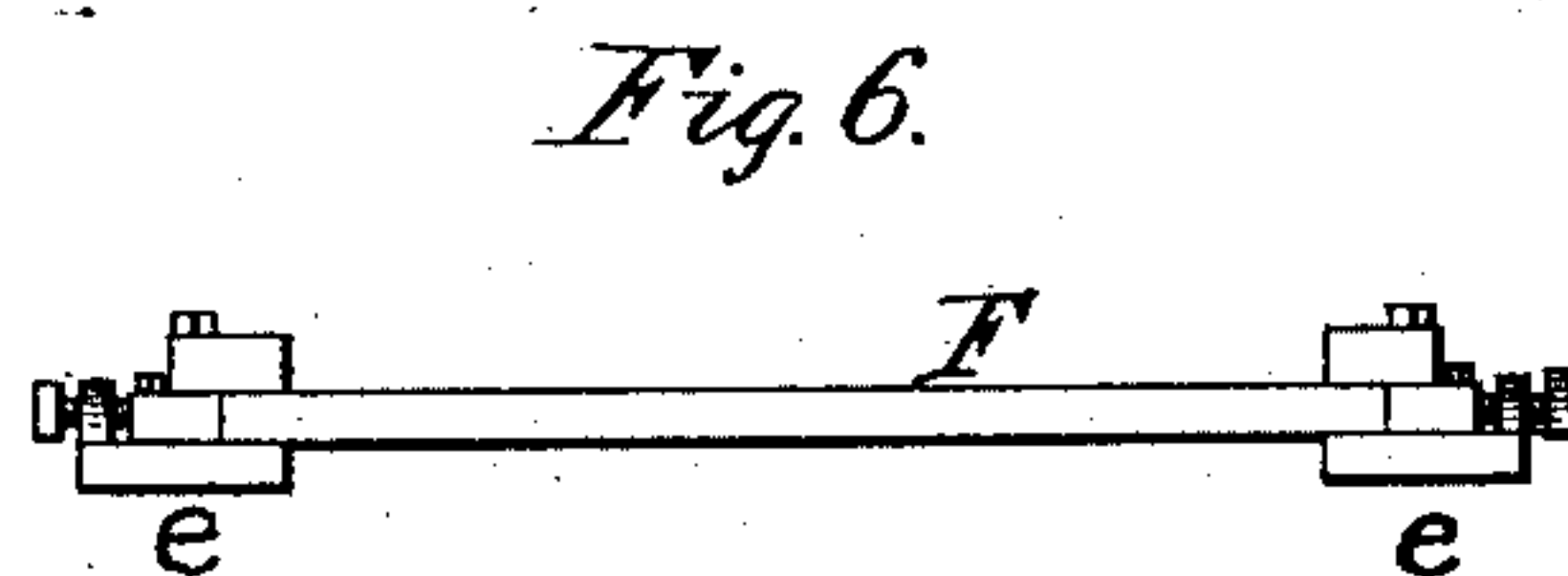
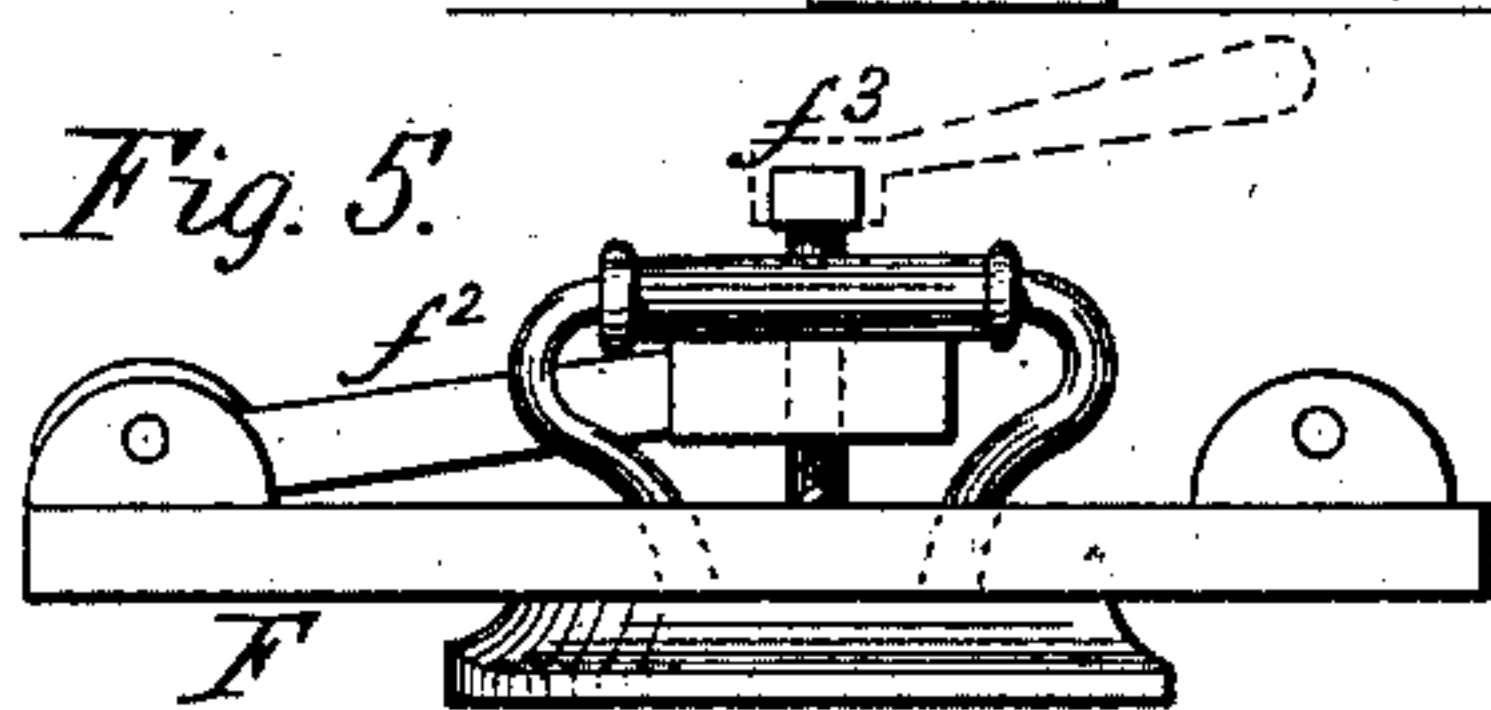
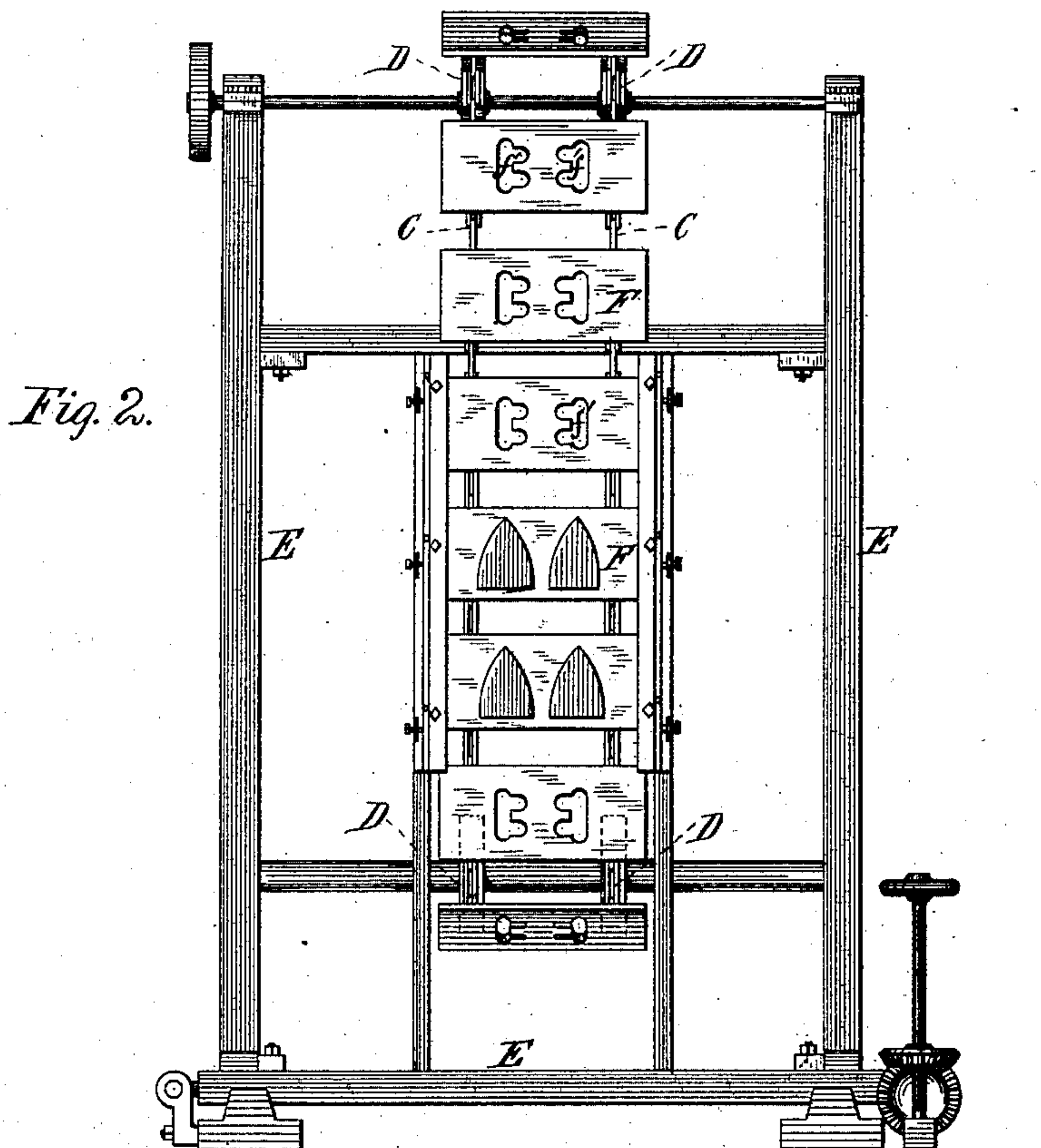
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UNITED STATES PATENT OFFICE.

JOHN W. RENSCHAW AND SAMUEL H. PERIN, OF JEFFERSONVILLE, IND.

MACHINE FOR GRINDING SAD-IRONS.

SPECIFICATION forming part of Letters Patent No. 338,301, dated March 23, 1886.

Application filed June 8, 1885. Serial No. 167,978. (No model.)

To all whom it may concern:

Be it known that we, JOHN W. RENSCHAW and SAMUEL H. PERIN, both of Jeffersonville, in the county of Clarke and State of Indiana, and citizens of the United States, have jointly invented certain new and useful Improvements in Machines for Grinding Sad-Irons, of which the following is a specification.

Our invention consists in an improved device for feeding the sad-irons to the grindstone, and in the various combinations of mechanism, hereinafter set forth, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of the feeding device, the sliding frame upon which the same is mounted, and a portion of the grindstone; Fig. 2, a front elevation of the same; Fig. 3, a reduced view showing one method of imparting lateral motion to the grindstone; Fig. 4, a bottom view of the plate for holding irons; Fig. 5, a side view of the same, and Fig. 6 an end view of the guides for the plates carrying the irons.

A represents a grindstone mounted upon a shaft, *a*, to which revolving motion is imparted by any usual means—as by a belt running upon a pulley, *a'*. A reciprocating motion is also imparted to the shaft by the eccentric B and worm-gears *b* and *b'*, or other suitable means. Thus the grindstone has both a revolving and a laterally-reciprocating motion.

C C represent a pair of endless chains carried by sprocket-wheels D D and rollers D' D', mounted upon a suitable frame, E, which is made adjustable with reference to the grindstone by means of any suitable adjusting mechanism.

The chains C are preferably composed of alternate single and double links, and the sprocket-wheels D have forked sprockets adapted to embrace the single links. A series of plates, F, for holding sad-irons, is mounted upon the chains C, each plate preferably extending from chain to chain, and adapted to carry two or more irons.

In the form shown, *f* represents the base of the plate provided with aperture *f'*, adapted to receive the handles of sad-irons, and having a hinged T-arm, *f''*, adjustable with reference to the plate by means of a set-screw, *f'''*.

Attached to the frame E are guides or slides *e*, adapted to receive the plates F as they approach the grindstone and guide them in a fixed path during the contact of the sad-irons with the stone.

We claim as our invention—

1. In a machine for grinding sad-irons, the combination of a grindstone having a rotating and a laterally-reciprocating motion, with one or more endless chains carrying a series of plates for holding sad-irons.

2. In a machine for grinding sad-irons, the combination of a grindstone having a rotating and a laterally-reciprocating motion, with one or more endless chains carrying a series of plates for holding sad-irons, and carried by sprocket-wheels and rollers mounted upon a sliding frame.

3. In a machine for grinding sad-irons, the combination of a grindstone having a rotating and a laterally-reciprocating motion, and one or more endless chains carrying a series of plates for holding sad-irons, and carried by sprocket-wheels and rollers mounted upon a sliding frame, with guides adapted to confine said plates to a straight path during the contact of the irons with the grindstone.

4. In a machine for grinding sad-irons, the combination of a pair of endless chains, of a series of plates for holding sad-irons, each having apertures for receiving the handles of the irons, and a hinged T-arm adjustable by means of a set-screw for clamping the irons in position.

JOHN W. RENSCHAW.
SAM'L. H. PERIN.

Witnesses:

SIMEON S. JOHNSON,
SILAS A. BESSE.