

No. 657,389.

Patented Sept. 4, 1900.

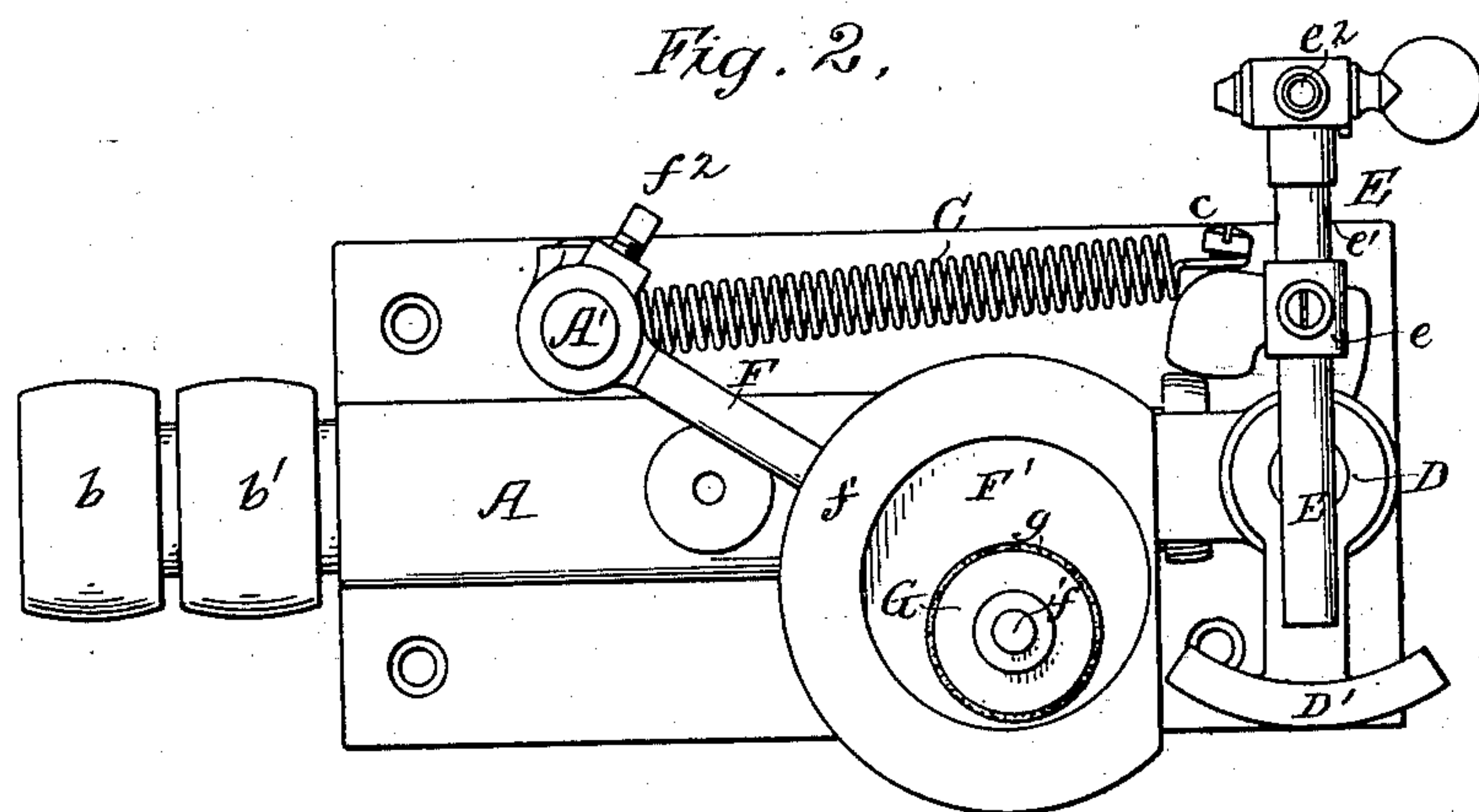
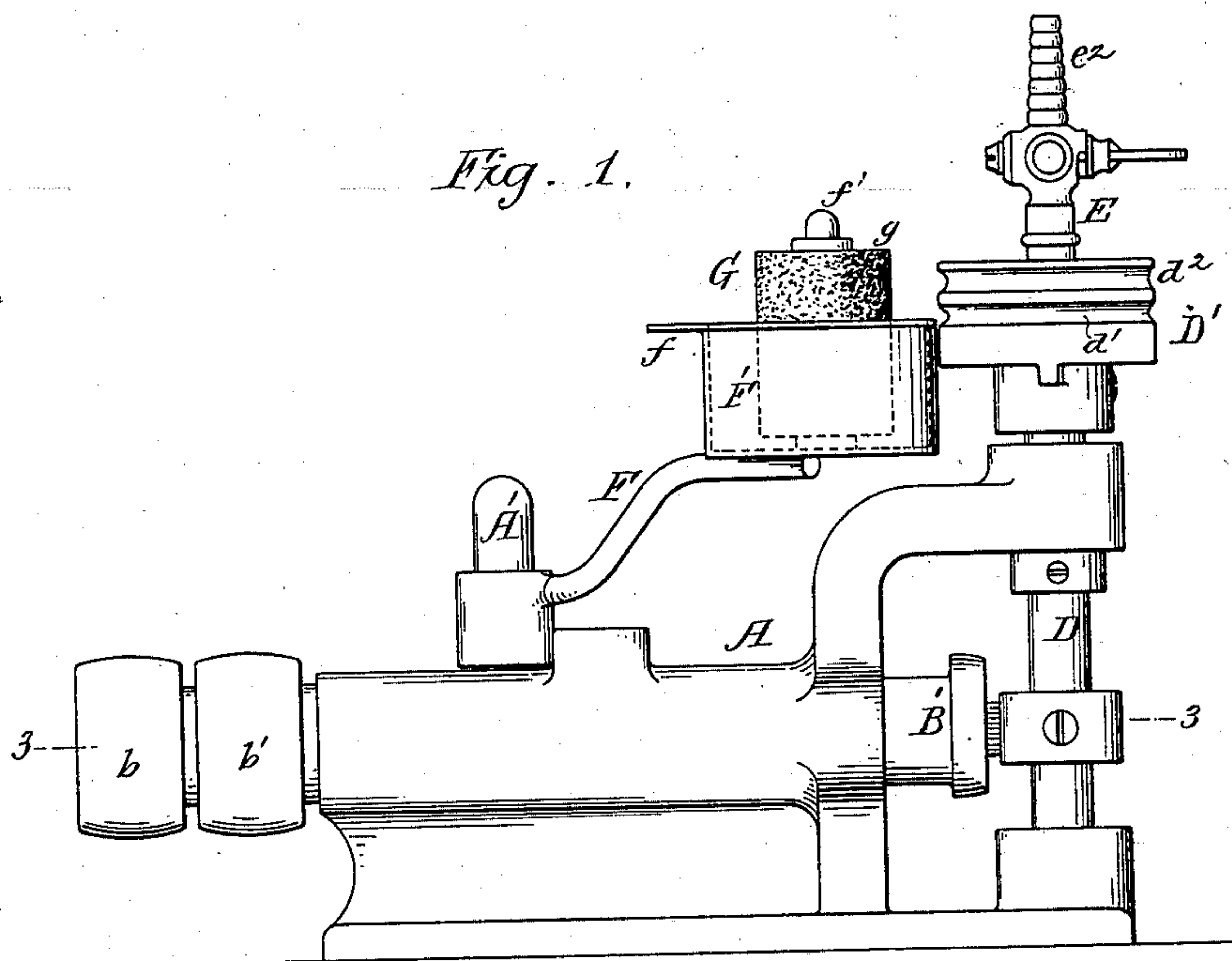
G. BINDER.

MACHINE FOR IRONING EDGES OF COLLARS OR CUFFS.

(Application filed Mar. 8, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:-

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No. 657,389.

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G. BINDER.

MACHINE FOR IRONING EDGES OF COLLARS OR CUFFS.

(Application filed Mar. 6, 1900.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 3.

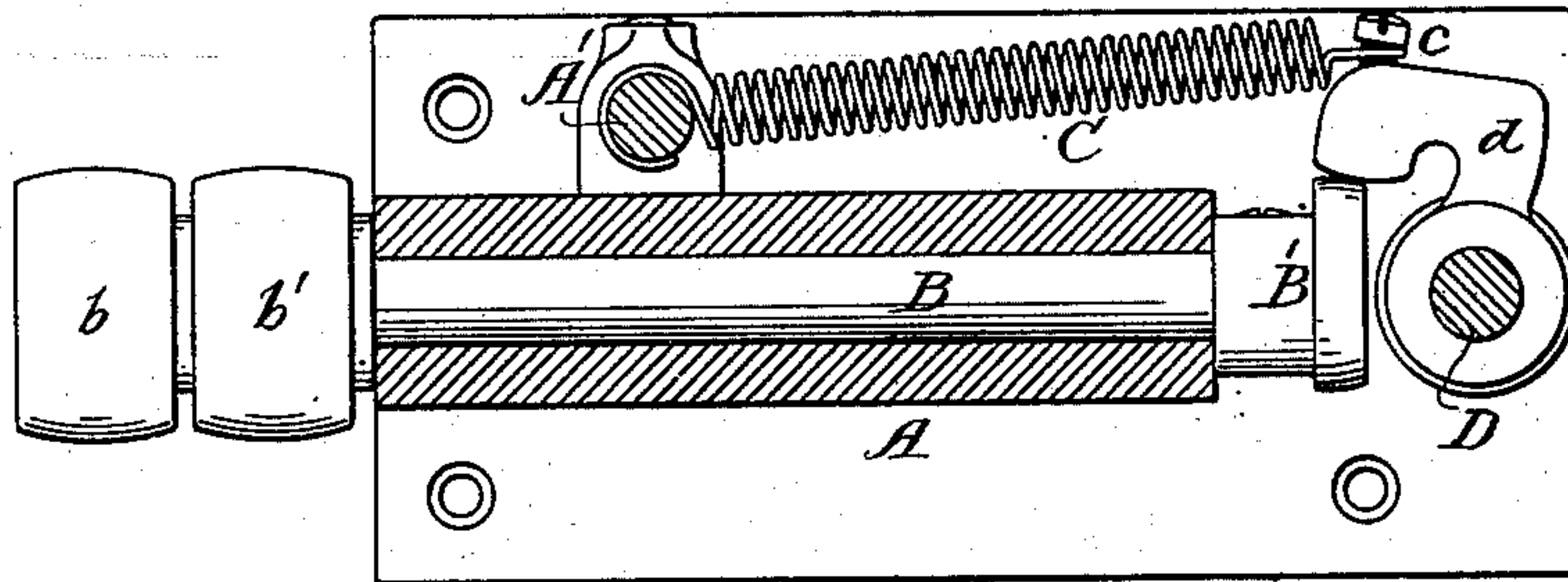
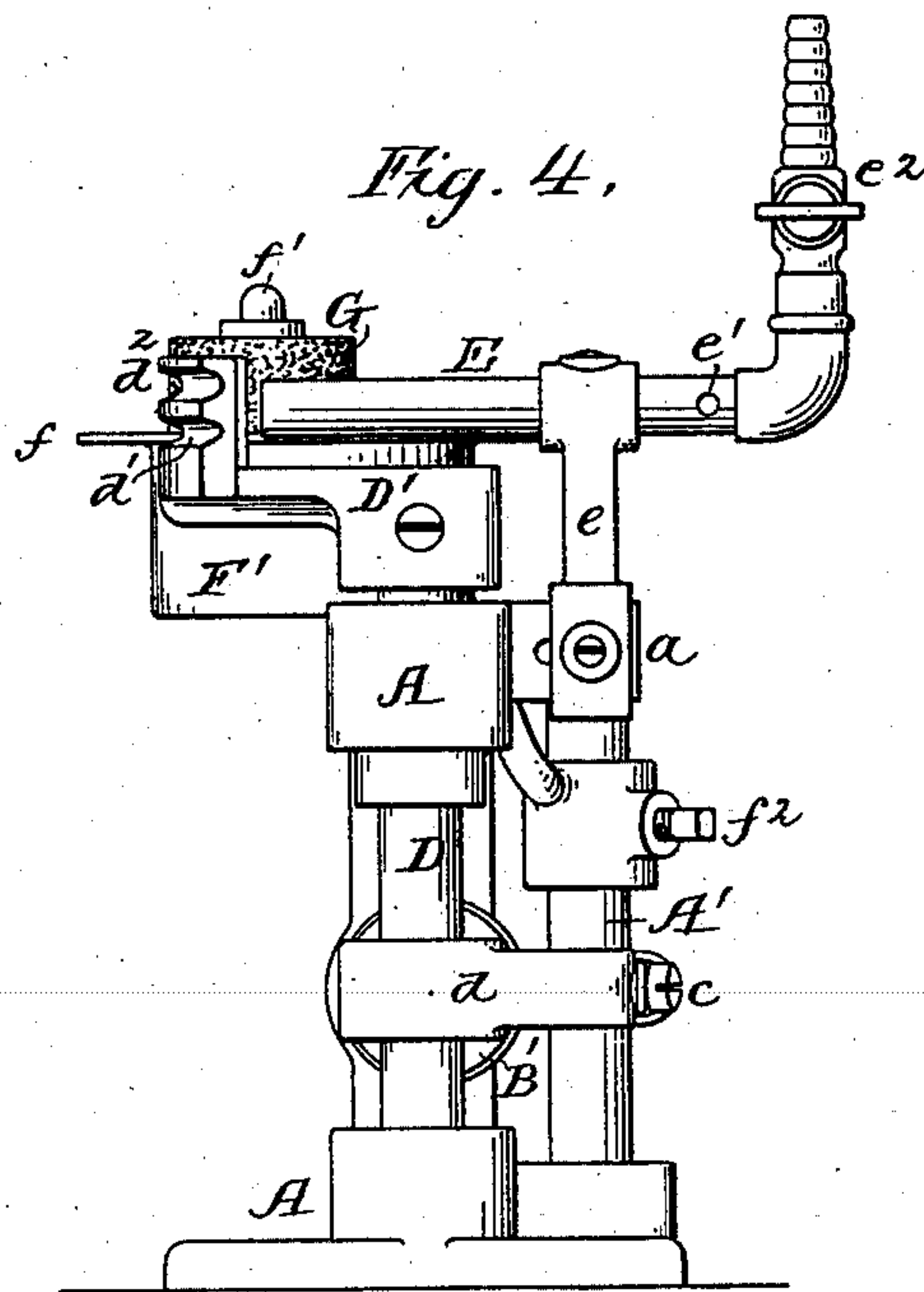


Fig. 4.



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UNITED STATES PATENT OFFICE.

GOTTLOB BINDER, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR IRONING EDGES OF COLLARS OR CUFFS.

SPECIFICATION forming part of Letters Patent No. 657,389, dated September 4, 1900.

Application filed March 6, 1900. Serial No. 7,490. (No model.)

To all whom it may concern:

Be it known that I, GOTTLOB BINDER, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Machines for Ironing the Edges of Collars or Cuffs, of which the following is a specification.

The object of my invention is to construct
10 a machine for ironing the edges of collars and cuffs, whereby they are first moistened and immediately ironed by an iron having a movement independent of that of the collar.

In the accompanying drawings, Figure 1 is a front view of my improved ironing-machine.
15 Fig. 2 is a plan view. Fig. 3 is a sectional plan view on the line 3-3, Fig. 1; and Fig. 4 is an end view.

A is the frame, having a bearing for the driving-shaft B. On this driving-shaft are
20 fast and loose pulleys $b\ b'$, and on the opposite end of the shaft is a cam B' . Adapted to bearings in the frame is a vertical shaft D, having an arm d shaped as shown in Fig. 3. This arm bears against the edge of the cam
25 B' . A spring C extends from a post A' , secured to the base of the machine, to a pin c on the arm d , so that the arm is kept in contact with the face of the cam B' . As the shaft B is revolved an oscillating movement
30 will be imparted to the shaft D. Secured to the upper end of the shaft is the iron D' . This iron is in the form of an arm with a vertical segmental flange, having two grooves $d' d^2$ in the present instance. One of these
35 grooves is narrower than the other, so that one can be used for turn-down collars, while the other can be used for standing collars and cuffs.

Supported on a bracket a , projecting from
40 the upper bearing for the shaft D, is a support e for the burner E. This burner extends to a point directly back of the flange of the iron, and the flame plays upon this flange and heats it to the required degree.

45 e' is an air-opening, so as to allow sufficient air to combine with the gas to make the proper heating-flame. The burner has a cock e^2 and is tapered in the present instance, so that a gas-hose can be attached to it in the ordinary
50 manner.

Vertically adjustable on the post A' is an arm F, on which is a cup F' , provided with a

wide flange f . Projecting from the bottom of this cup is a post f' , and on this post is a vertical roller G, covered with felt g . The
55 flange of the cup acts to support the collar as its edge is being moistened by the felt. The felted roller draws moisture from the cup by capillary attraction, and thus as the collar is passed against the roller the edge of the
60 collar will be moistened, and the continued movement of the collar in contact with the heated iron D' will cause its edge to be properly ironed and any projecting threads will be smoothed out, so as to give the edge of the
65 collar a smooth finish. By making the arm F adjustable on the post A' , I can adjust the cup F' in position in respect to either the lower groove d' or the upper groove d^2 of the iron, and the arm can be held in the adjusted
70 position by a set-screw f^2 .

By this means I make a very compact and easily-operated machine, in which the iron is given a motion to properly iron the edge of the collar—that is, an oscillatory motion—
75 while the edge of the collar is passing in contact with it.

I claim as my invention—

1. The combination in an ironing-machine of a vertical shaft, an iron carried thereby,
80 said iron having a segmental ironing-surface, means for imparting an oscillatory motion to the shaft, and a moistening device at one side of the iron, so that the collar will be moistened prior to its being ironed, substantially as de-
85 scribed.

2. The combination in an ironing-machine, of a frame, a driving-shaft on said frame, and a cam on the driving-shaft, a vertical shaft carrying an iron at its upper end, an arm on
90 the shaft bearing against the cam on the driving-shaft whereby an oscillatory motion will be imparted to the driving-shaft and its iron, substantially as described.

3. The combination in an ironing-machine,
95 of an iron, means for imparting motion to the iron, said iron having two or more grooves in its face, a flanged cup, and a vertically-arranged moistening device projecting from said cup, said moistening-cup being verti-
100 cally adjustable so that its flange can be arranged opposite either groove, substantially as described.

4. The combination in an ironing-machine

for ironing the edges of collars or cuffs, of a driving-shaft, a cam thereon, a driven shaft carrying a segmental iron, an arm on the said driven shaft bearing against the cam on the 5 driving-shaft, a spring tending to keep the arm in contact with the cam, a moistening-cup at one side of the iron, and a moistening-roller in said cup, substantially as described.

5. The combination of a driving-shaft, a 10 cam on said shaft, a vertical driven shaft, an arm on the driven shaft bearing against the cam on the driving-shaft, means for keeping the arm in contact with the cam, an iron on the driven shaft having a flange, a gas-burner,

said burner being situated directly back of 15 the flange, so that the flange will be heated by the flame from the burner, a moistening-cup at one side of the iron, a roller in said moistening-cup, and means for adjusting the moistening-cup, substantially as described. 20

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GOTTLOB BINDER.

Witnesses:

WILL. A. BARR,

H. HAYES AIKENS.