

No. 714,175.

Patented Nov. 25, 1902.

T. S. HALEY.

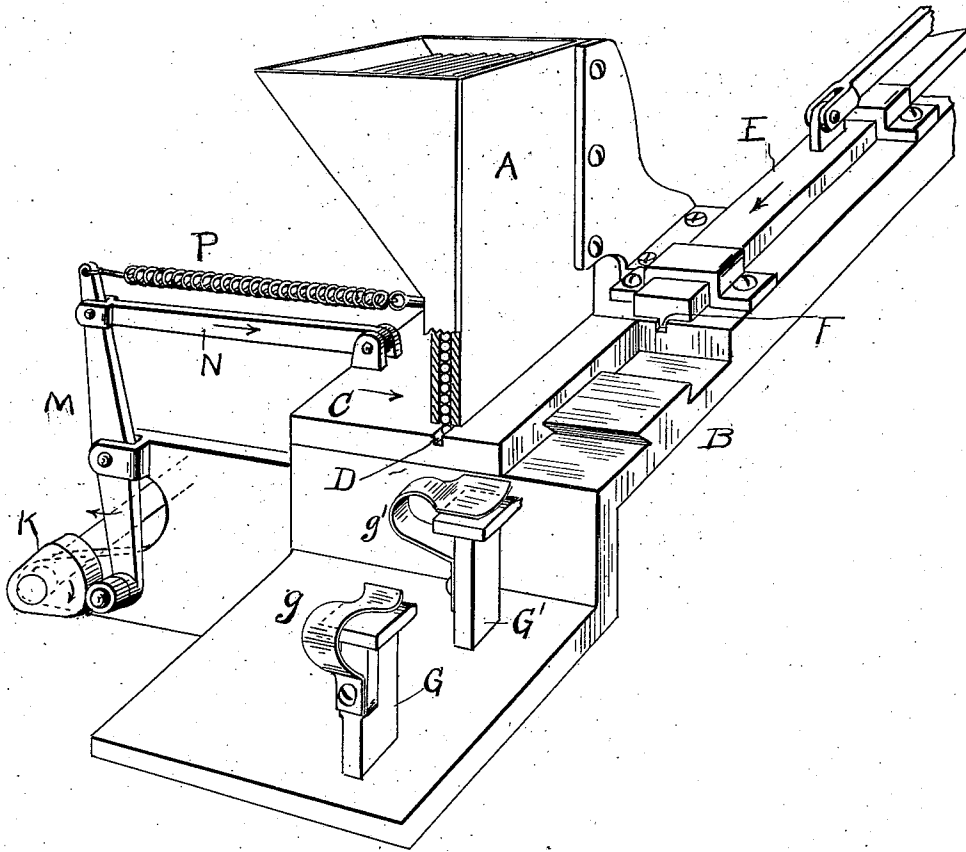
FEEDING DEVICE FOR WIRE WORKING MACHINES.

(Application filed May 9, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1



Witnesses
C. F. Kiegor
J. Kreinendahl

Inventor
Thomas S. Haley
by Simon R. Hart
Attorney's

No. 714,175.

Patented Nov. 25, 1902.

T. S. HALEY.

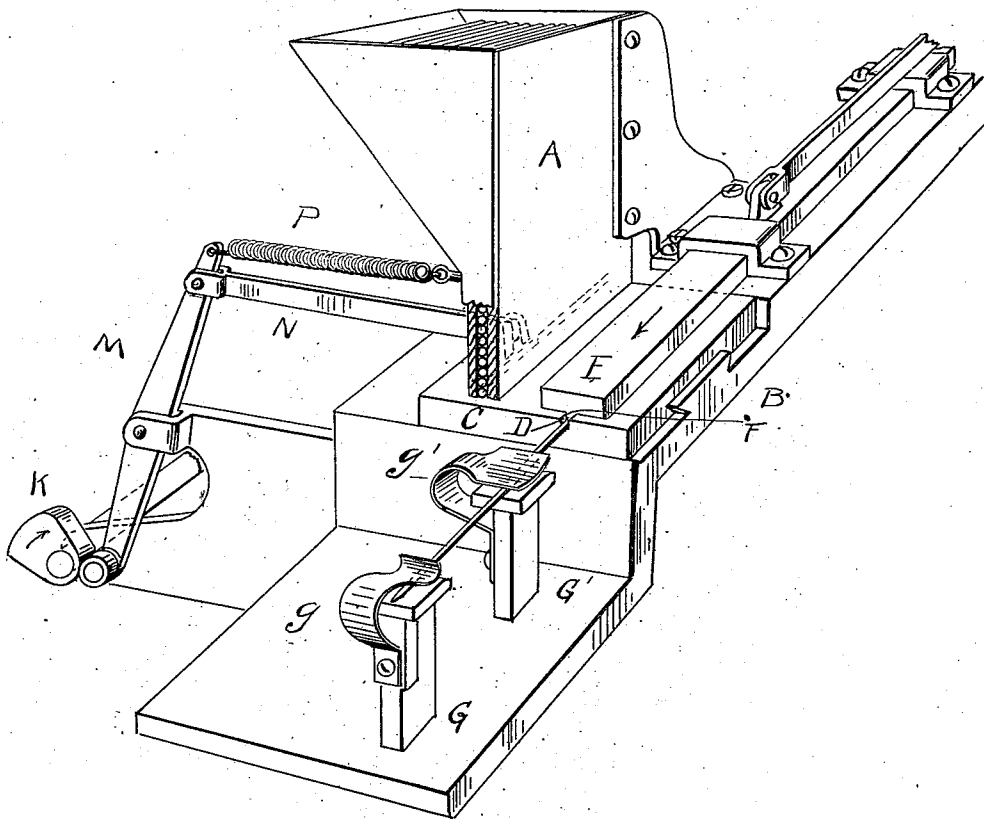
FEEDING DEVICE FOR WIRE WORKING MACHINES.

(Application filed May 9, 1902.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 2



Witnesses
C. F. Kilgore
D. H. Kimmick

Inventor
Thomas S. Haley
by Simon H. Hart
Attorneys

UNITED STATES PATENT OFFICE.

THOMAS S. HALEY, OF NEW HAVEN, CONNECTICUT.

FEEDING DEVICE FOR WIRE-WORKING MACHINES.

SPECIFICATION forming part of Letters Patent No. 714,175, dated November 25, 1902.

Application filed May 9, 1902. Serial No. 106,590. (No model.)

To all whom it may concern:

Be it known that I, THOMAS S. HALEY, a citizen of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Feeding Devices for Wire-Working Machines, of which the following is a specification.

Figure 1 is a view in perspective of the parts in one extreme position. Fig. 2 is a view in perspective of the parts in their opposite extreme position.

This invention is designed as an improvement on the wire-feeding device which is shown in my Patent No. 700,325, granted May 20, 1902. I have found when wires of very small diameters are used that the wires on the plunger shown in said application are apt to bend, and it has become necessary, therefore, to devise some other means of feeding these wires to the dies. In the device shown in the drawings and which is designed to obviate this difficulty, A denotes the hopper; B, the table on which lies the transfer-plate C. In this transfer-plate is a groove D, into which the wires are dropped from the hopper. At one side of the hopper and at the end of the transfer-plate is a plunger E, operated in any suitable manner, having a rib F, which fits the groove in the plate C. At the opposite end of the transfer-plate are arranged the tables G G', equipped with the springs g g'. The transfer-plate C is driven back and forth from any suitable source of power, as by the cam K and the levers M N, and its movement in one direction is controlled by the spring P.

The operation of the device is as follows, the parts being shown in Fig. 1: A wire from the hopper is dropped into the groove D. The plate C is then moved to the right until the

groove D comes in line with the rib F, at which time the plunger E starts forward, the rib F forcing the wire out of the groove onto the tables G G' and under the springs g g', where it is held in place until the dies are moved up to operate upon it, as shown in Fig. 2. As soon as the wire has been delivered from the plate the plunger E retreats and the plate C returns to its normal position, with the groove underneath the hopper, and this operation is repeated so long as wires are needed.

I claim as my invention—

1. In a device of the class specified, in combination, the hopper having a suitable discharge-orifice, a recessed transfer-plate adapted for reciprocating movement under said orifice, and the reciprocating plunger adapted for movement at an angle to the direction of movement of the transfer-plate and crosswise thereof, substantially as described and for the purposes set forth.

2. In a device of the class specified, in combination, the hopper, the transversely-movable transfer-plate, the plunger, the tables, and retaining-springs on said tables.

3. In a device of the class specified, the hopper, the grooved transfer-plate, and the plunger having a rib adapted to move in said groove, substantially as described and for the purposes set forth.

4. The combination in a device of the class specified, of the hopper, the grooved transfer-plate, the ribbed plunger, and the tables having retaining-springs.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS S. HALEY.

Witnesses:

E. M. LOWE,
D. S. KIENNENDAHL.