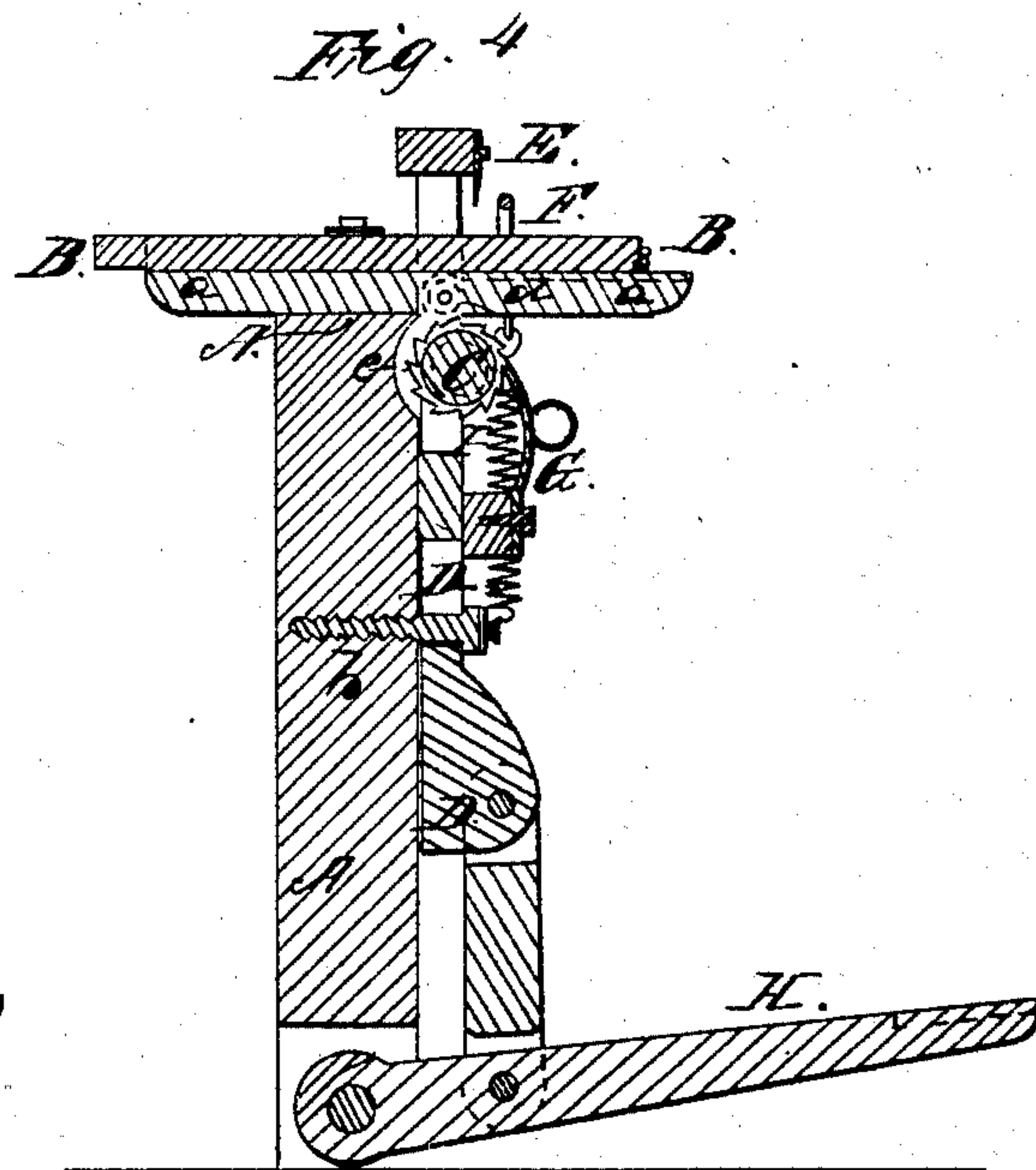
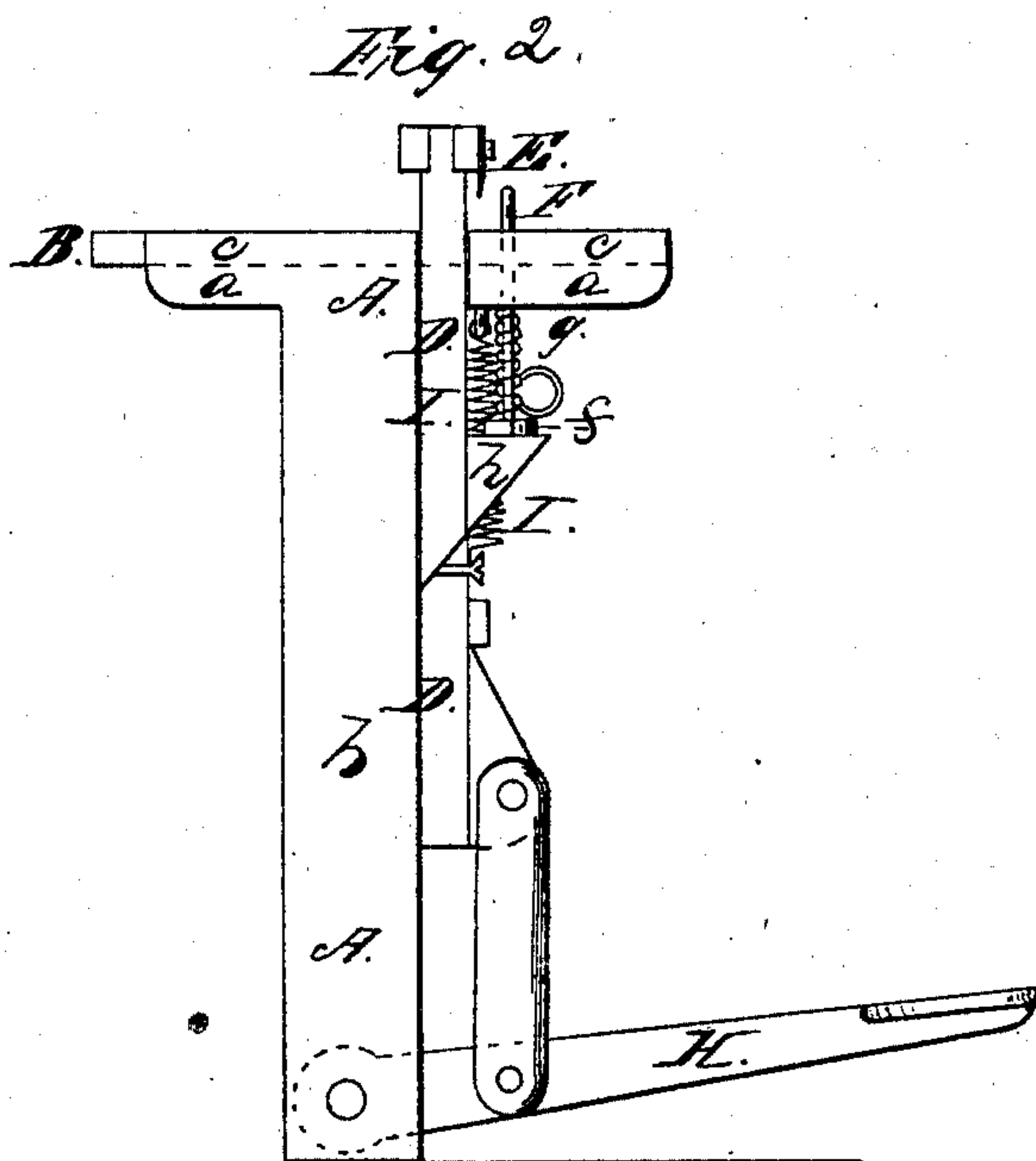
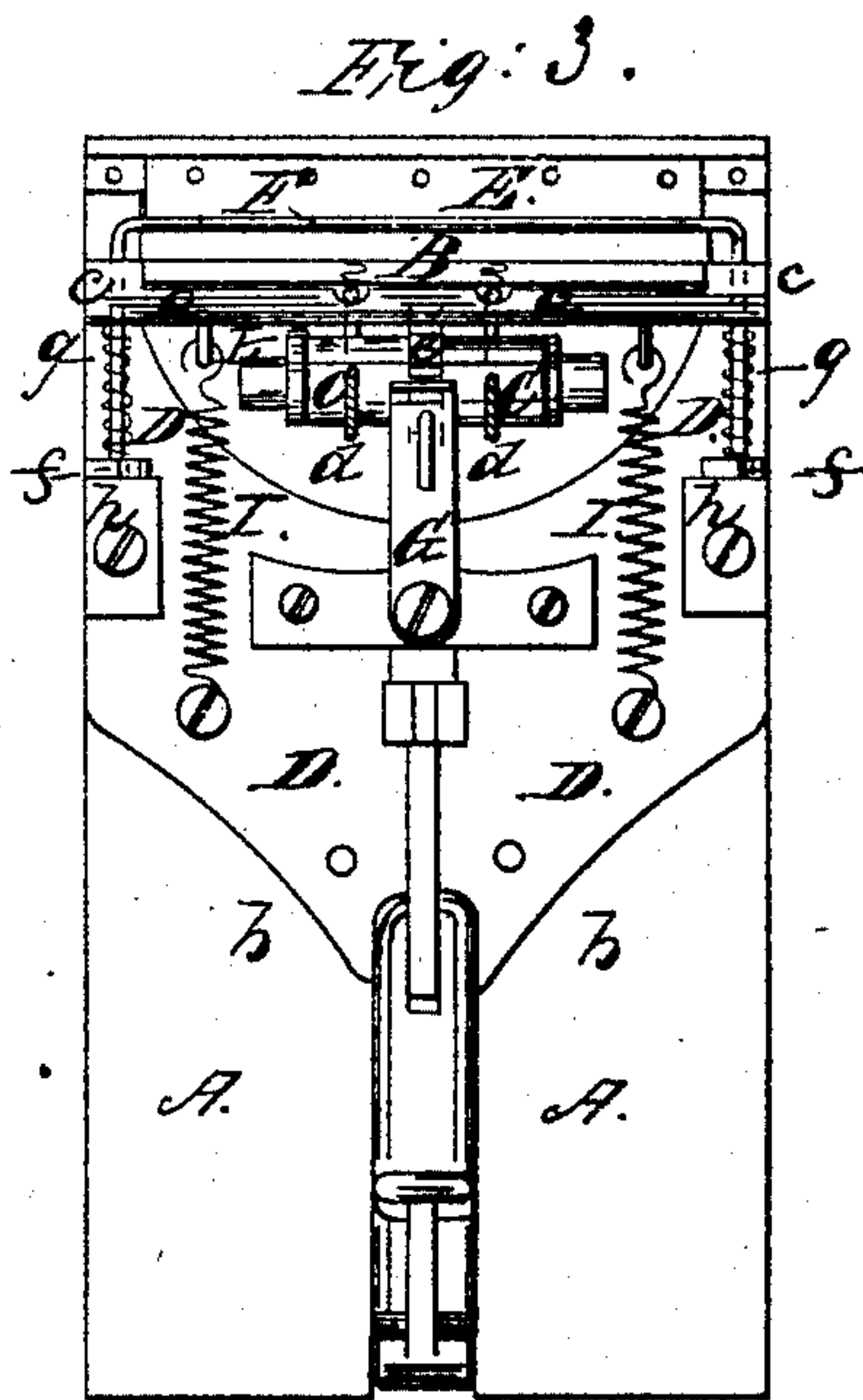
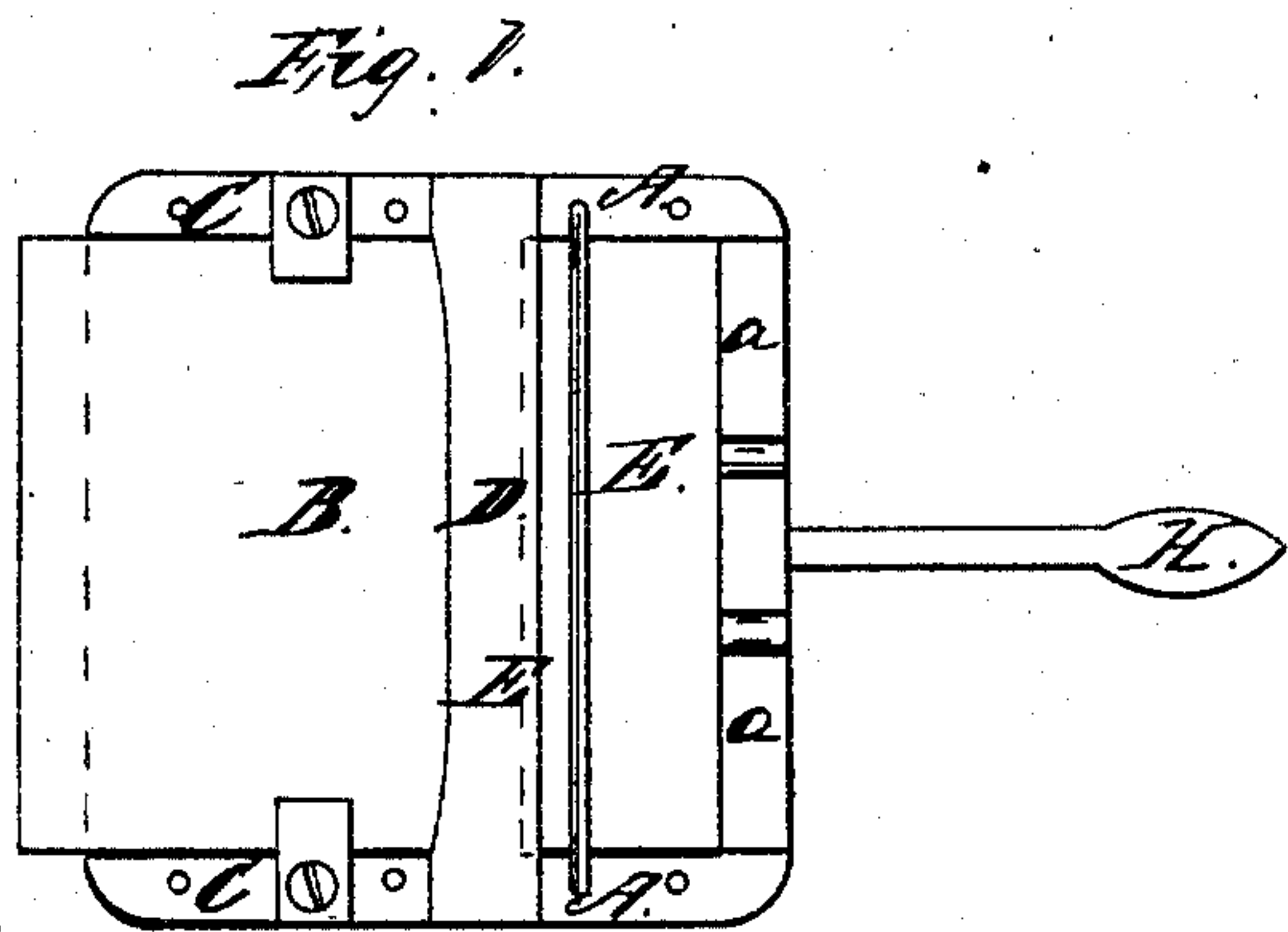


No. 30,761.

PATENTED NOV. 27, 1860.

J. W. RICHARDSON.

MACHINE FOR CUTTING LEATHER INTO STRIPS.



*Witnesses.*

R. H. Lundy

F. P. Hale Jr

*Inventor:*

John W Richardson

# UNITED STATES PATENT OFFICE.

JOHN W. RICHARDSON, OF SOUTH BRAINTREE, MASSACHUSETTS.

## MACHINE FOR CUTTING LEATHER.

Specification of Letters Patent No. 30,761, dated November 27, 1860.

*To all whom it may concern:*

Be it known that I, JOHN W. RICHARDSON, of South Braintree, in the county of Norfolk and State of Massachusetts, have invented an Improved Machine for Cutting Leather or other Material into Strips, and do hereby declare that the same is fully described in the following specification and illustrated in the accompanying drawings, of which—

Figure 1 is a top view; Fig. 2, a side elevation; Fig. 3, a front elevation; and Fig. 4, a longitudinal section of it.

In the said drawings, A, is the frame or table of the machine, it being composed of two boards, *a, b*, arranged at right angles with one another, as shown in the figures. The upper board, *a*, supports, between parallel ways, *c, c*, a movable carriage, B, from the front end of which two bands or ropes, *d, d*, extend backward and pass down through the table and are fastened to a windlass or roller, C, arranged underneath the part, *a*, of the table and provided with a ratchet wheel, *e*, as seen in the drawings. Furthermore, a sliding frame, D, is applied to the front side of the part, *b*, and extends above and across the table, and supports a knife E, as shown in all the figures. There is a holding rod, F, placed in front of and parallel to the knife and made to extend over the movable platform or carriage, B. This rod is bent downward and passes through the part, *a*, of the table and on opposite sides of the carriage. At its two ends, the said rod terminates in two feet, *f, f*, between which and the part, *a*, of the table helical springs, *g, g*, are arranged, each spring being made to envelop the rod and to press its feet downward toward and upon two brackets *h, h*, which extend from the sliding frame, D, as shown in Figs. 2 and 3. The said sliding frame, D, carries a spring pawl G, which works into the ratchet, *e*. The frame also has applied to it, a treadle, H, for depressing it. The springs I, I, are affixed to

the frame, D, and the part, *a*, of the table, such springs serving to elevate the sliding frame, D, and the holding rod, F.

A spring L, projecting from the part, *a*, bears on the windlass and serves to maintain it in position during the descent of the knife frame, D, and the retainer or holding rod, F.

In operating with this machine, the piece of leather or other material to be cut into strips, is to be placed on the top surface of the carriage, B, and extended underneath the knife, E, and the holding rod, F. Next, if the sliding frame, D, be moved downward by pressure upon its treadle, the holding rod, F, will be depressed by its springs, *g, g*, and will bear upon the sheet of leather or other material to be cut, the knife being subsequently drawn down through such material after which the frame, D, will be raised by its springs. During the elevation of the said frame, not only will the holding rod, F, and the knife E, be raised off the sheet of leather, but the impelling pawl, G, will be caused to so act upon the teeth of the ratchet as to effect a partial revolution of the windlass sufficient to move the carriage and the sheet of leather thereon, the required distance, preparatory to the knife and the holding rod being again depressed.

By throwing the pawl out of action with the ratchet, the table may be moved backward.

I claim—

My said improved leather cutting machine or arrangement of the windlass, its ratchet retaining spring, connecting rope or ropes, and impelling pawl with the table, the carriage, the knife frame, knife and the holding rod constructed, applied and made to operate together, substantially as and for the purpose specified.

JOHN W. RICHARDSON.

Witnesses:

R. H. EDDY,  
F. P. HALE, Jr.