

W. H. H. MANSFIELD.
Pasting-Machine.

No. 218,889.

Patented Aug. 26, 1879.

Fig. 1

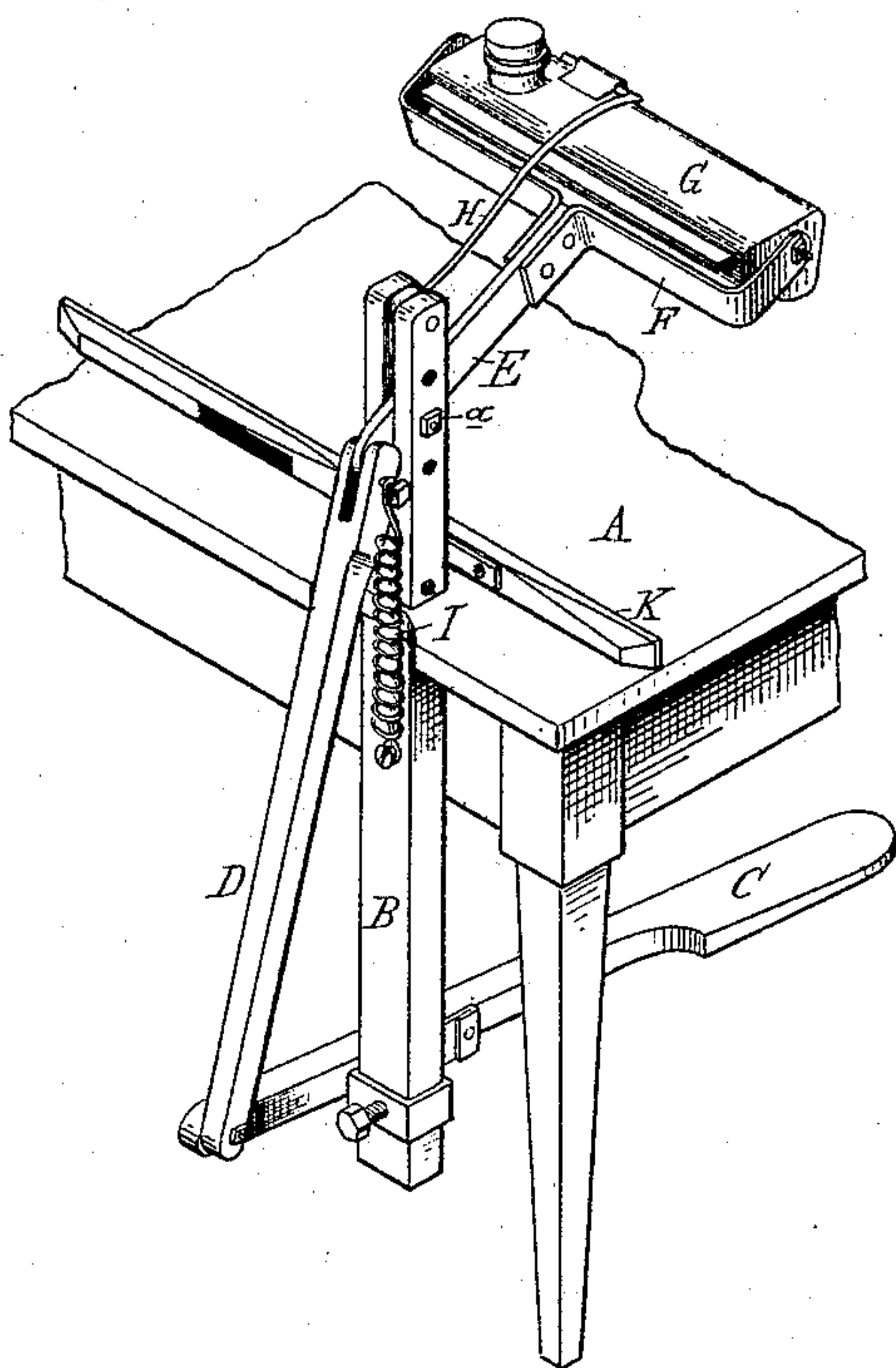


Fig. 2

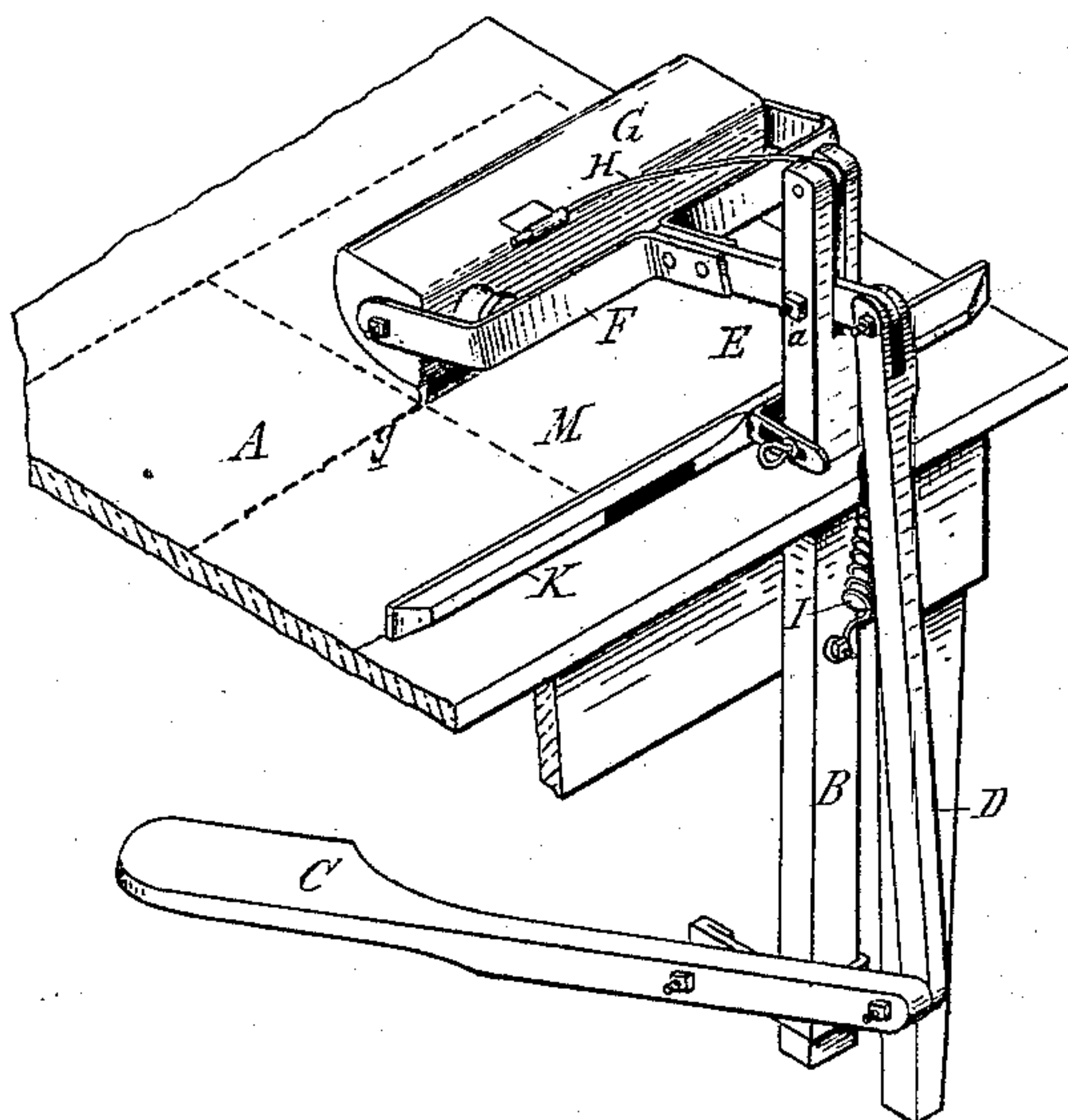
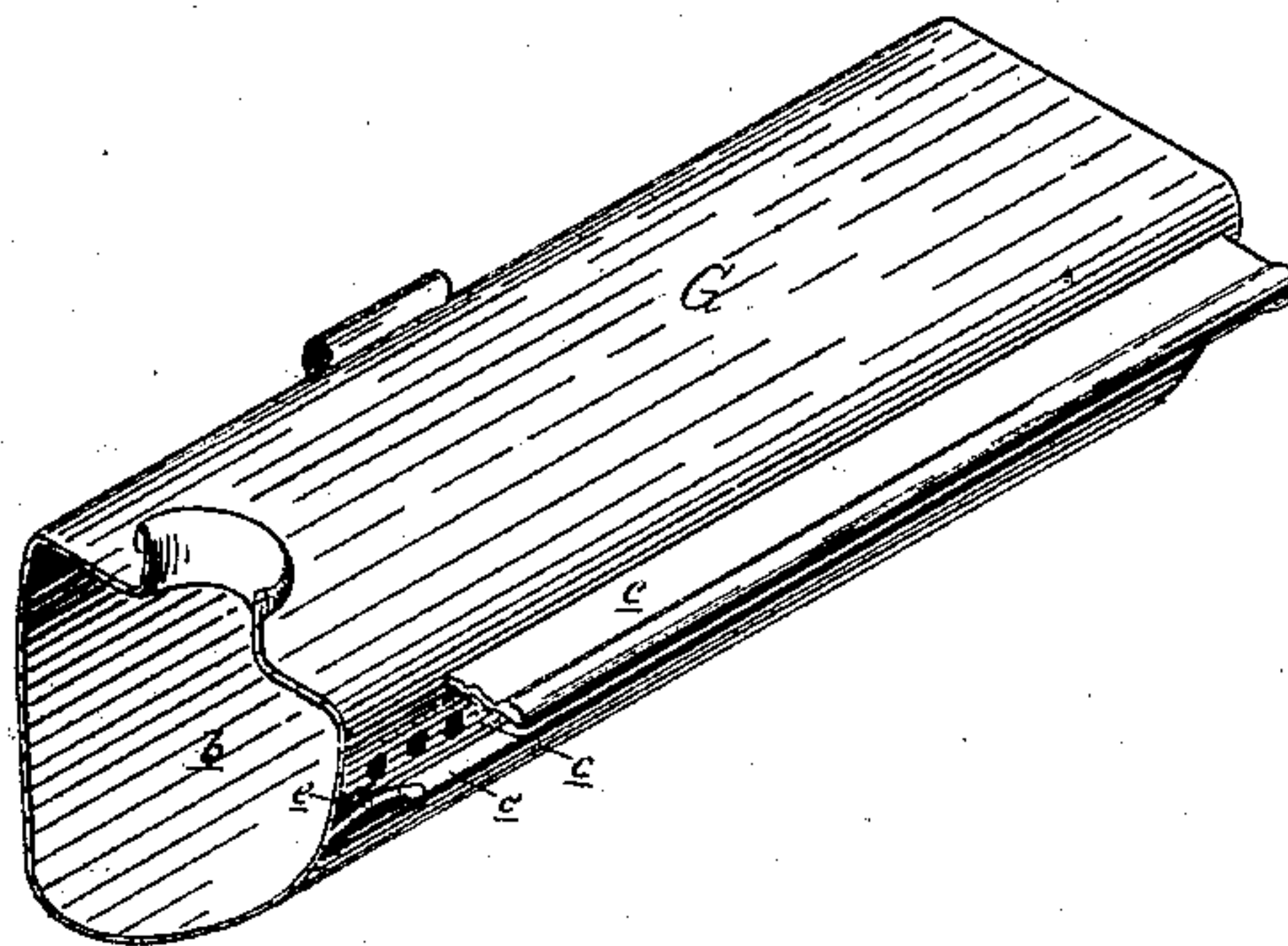


Fig. 3



Attest:

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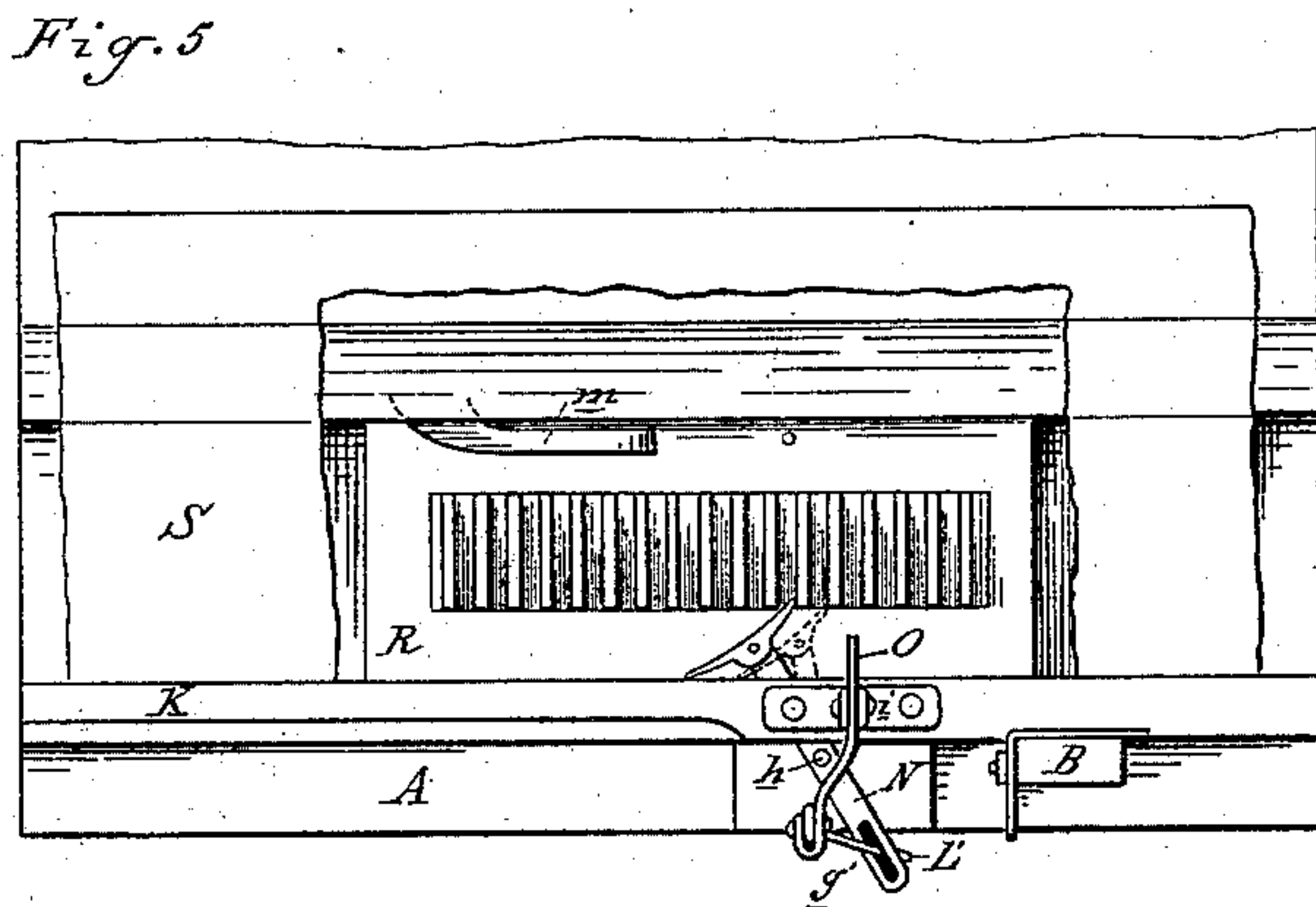
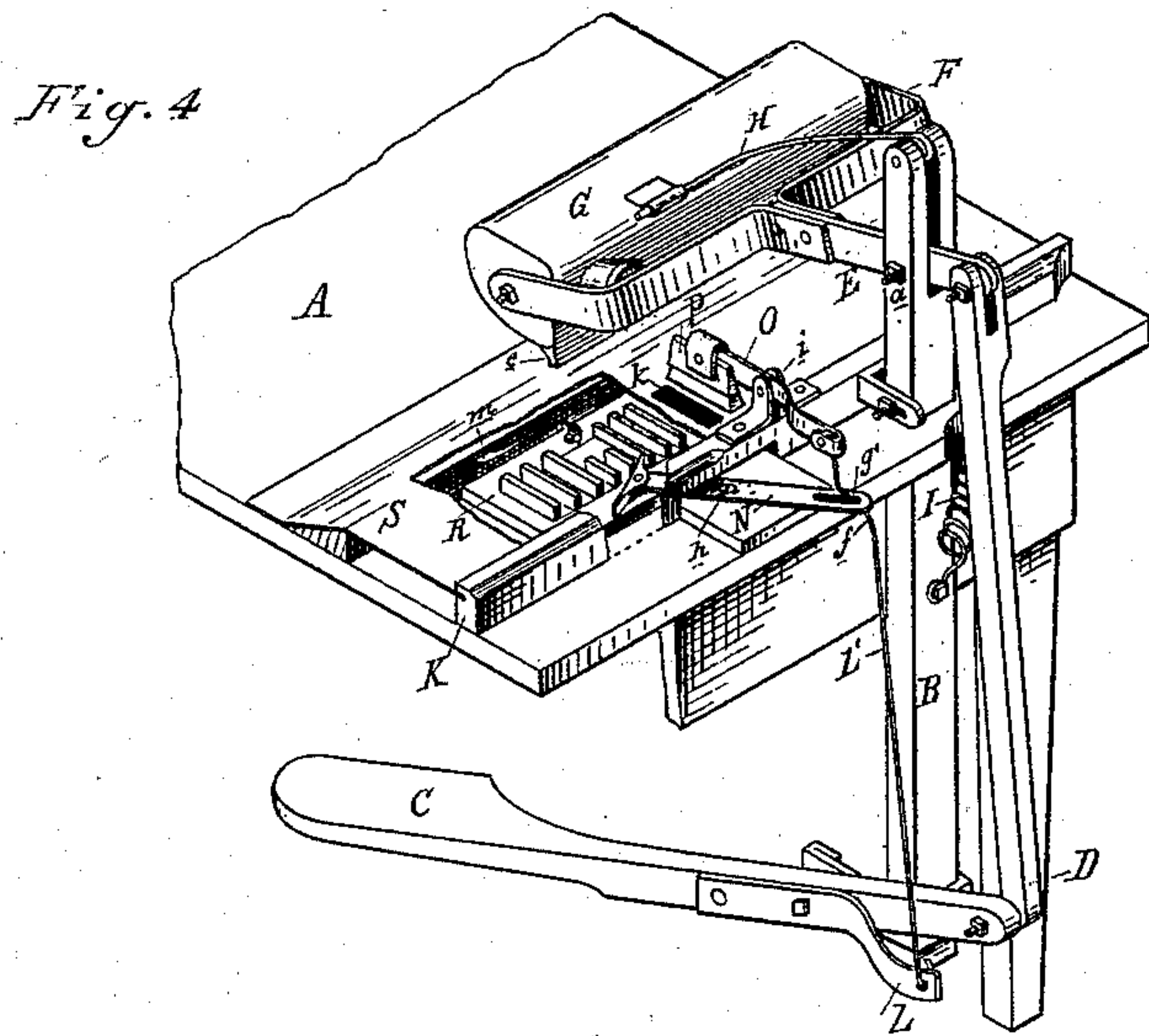
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UNITED STATES PATENT OFFICE.

WILLIAM H. H. MANSFIELD, OF CASSOPOLIS, MICHIGAN.

IMPROVEMENT IN PASTING-MACHINES.

Specification forming part of Letters Patent No. **218,889**, dated August 26, 1879; application filed December 4, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. H. MANSFIELD, of Cassopolis, in the county of Cass and State of Michigan, have invented an Improvement in Pasting-Machines, of which the following is a specification.

The nature of my invention relates to certain new and useful improvements in the construction and operation of a device for pasting the folds of paper upon which printed matter in pages is found, to secure the leaves to each other when the outer folds are cut open to allow the pages to be opened and read, as in an ordinary book; and, also, to certain improvements in addressing-machines connected with said pasting-machines.

The invention is more especially adapted for newspapers of comparative small circulation, which are published in quarto form, and for job-printing offices, where small pamphlet-work is sometimes done at an inconvenient distance from a bindery.

The invention consists in the peculiar construction, arrangement, and operation of the various parts, as more fully hereinafter described.

In the drawings, Figure 1 is a perspective view of my invention, taken from the rear, with the addressing device removed. Fig. 2 is a like view taken from a like point, showing the device in the act of pasting, also showing a flat quarto newspaper on the table. Fig. 3 is a detached perspective of the paste-fountain, partially in section to show its interior construction. Fig. 4 is a rear perspective with the addressing device attached, and with the cover partially broken out to show the addressing frame in place. Fig. 5 is a plan sectional view, showing addressing-frame and connections.

In the accompanying drawings, which form a part of this specification, A represents a table, to which is attached, adjustably or rigidly, as may be desired, the standard B, to the lower end of which is pivoted, in any convenient or desired manner, the treadle C. To the outer end of this treadle is pivoted the link D, to the upper end of which is also pivoted the lever E, which is fulcrumed to the standard by means of the bolt *a*.

The pivoting of the treadle to the standard

and of the treadle to the link may be adjustable vertically, as may be desired.

The free end of the lever is provided with a yoke, F, in the outer extremity of the arms of which is pivoted or hung upon suitable journals the paste-fountain G.

The paste-fountain consists of a chamber, *b*, into which, through any convenient opening, the paste is introduced. When the chamber is in the position shown in Fig. 1, the paste has no opportunity of escaping from the chamber. On the rear side of this chamber, as shown in Fig. 3, there is an auxiliary chamber, *c*, and communication is had between the two chambers *b c* by a series of small perforations in the intervening wall; or, in place of the perforations, a narrow longitudinal slot covered with wire-cloth may be employed.

The auxiliary chamber *c* terminates in lips *e*, through which the paste is discharged upon the paper in a thin film when in operation, as shown in Fig. 2. If desired, although I do not deem it necessary, these lips may be so constructed that the opening between them may be adjusted for a greater or less discharge of paste.

A connecting-rod, H, is pivoted at one end to the top of the standard B, and at the other to the paste-fountain, in such manner that when the device is not in use such arm will compel the paste-fountain to remain in the position shown in Fig. 1, and, when in use, to assume the position shown in Fig. 2, for the discharge of the paste through the lips.

A spring, I, attached at one end to the link D and at the other to the standard B, compels the device to assume the position shown in Fig. 1 when the pressure is removed from the treadle C.

A guide, K, is adjustably secured to the standard B in such manner that said guide will rest upon the top of the table and be adjustable toward the front or rear of the same, as may be necessary to suit the various sizes of sheets to be operated upon.

To one side of the treadle C is secured the crooked arm L, to the outer end of which is pivoted the connecting-rod L', the upper end of which is bent, as shown at *f*, and passes through a slot, *g'*, in the lever N, which is fulcrumed at *h*. The upper end of this connect-

ing-rod is secured to the arm O, which is pivoted at *i*, and has secured to its outer end a pad, P.

R is a slide, designed to hold within a recess cut in its center a series of addresses such as are usually employed in newspaper-addressing machines. This slide is placed upon the top of the table, against the guide K, and underneath the sheet-metal cap S, and is confined against said guide in such manner as to be susceptible of a motion longitudinal with said guide. An aperture, *k*, is cut in said cap immediately below the face of the pad, of sufficient size to disclose one address as it may be presented by the forward motion of the slide. These addresses are set in the slide with regular intervals between them, and are moved forward with each motion of the treadle by means of the lever N, the free end of which engages in one of the intervals and presents the next address to the aperture in the cap. The addresses are inked before the slide is inserted.

Upon one side of the slide are arranged a series of adjustable stops, the interval between said stops being filled with the addresses of those obtaining their mail at one post-office. A small spring, *m*, is so arranged as to engage with these stops in succession as they are presented, and its "snap" in such engagement indicates to the operator that the addresses for that post-office are completed.

The joints by which the various motions of the machine are obtained may be made adjustable, so that the pile of sheets or papers being operated upon may vary in number and thickness without interfering with the perfect working of the machine, and the printing-pad may be constructed of any form or suitable material which will best perform the work.

In practice, M represents a sheet of paper with eight printed pages, technically termed a "quarto sheet." The guide against which one edge of this paper rests is set to bring the center fold, *g*, immediately under the lips of the paste-fountain when in the position of Fig. 2.

The sheets of an edition are successively fed, and upon the presentation of each successive sheet the treadle is forced downward, compelling a discharge of paste through the lips by gravity and impact. Upon the removal of pressure from the treadle the other half of the sheet is folded over upon the half which has been pasted and then removed.

The same motion of the treadle that operates the pasting device gives motion to the lever N, the free end of which engages and moves forward one interval the slide carrying the addresses, and the paper to be addressed being laid over the aperture at which the ad-

dress is presented, the pad is forced down, compelling the paper to receive the imprint of the address.

The cap and addressing-slide may be removed and the addressing device disconnected when it is desired simply to use the machine as a pasting-machine; or the pasting device may be detached from the operations of the treadle when it is simply desired to use the device as an addressing-machine; or both the addressing and pasting may be performed at the same time, if desired.

What I claim as my invention is—

1. The combination in one machine of a pasting and an addressing device, connected to, and adapted to be operated simultaneously by, a single treadle, constructed and operating substantially as herein described.

2. In combination with the treadle C of a pasting device, the connecting-rod L', bent as shown at *f*, and operating the lever N through a slot therein, for the purpose of giving motion to the addressing-slide and the pivoted pad-arm O, connected to and operated by said rod L', substantially as specified.

3. In a pasting-machine, a semi-rotating paste-fountain, consisting of the chamber *b*, closed on every side except at the discharge-openings leading into the chamber *c* and the discharge-lips *e*, said fountain being operated so that the discharge-lips will be on its under side when in the act of pasting, and will be swung around above the liquid in the fountain when not in use, substantially as described and shown.

4. In combination with the paste-fountain G, constructed substantially as described, and with the standard B and lever E, the connecting-rod H, pivoted to said standard and fountain, for the purpose of compelling the semi-rotation of said fountain, substantially as specified.

5. A pasting device consisting of the standard B, treadle C, link D, lever E, yoke F, paste-fountain G, connecting-rod H, and spring I, constructed, arranged, and operating substantially as and for the purposes set forth.

6. A combined pasting and addressing machine, consisting of the table A, standard B, treadle C, link D, lever E, yoke F, paste-fountain G, connecting-rod H, spring I, arm L, connecting-rod L', lever N, arm O, pad P, addressing-slide R, and cap S, all the parts being constructed, arranged, and operating substantially as and for the purposes set forth.

WILLIAM H. H. MANSFIELD.

Witnesses:

H. S. SPRAGUE,
A. BARTHEL.