

(No Model.)

J. H. WOODARD.

MACHINE FOR SEALING NEWSPAPERS.

No. 285,337.

Patented Sept. 18, 1883.

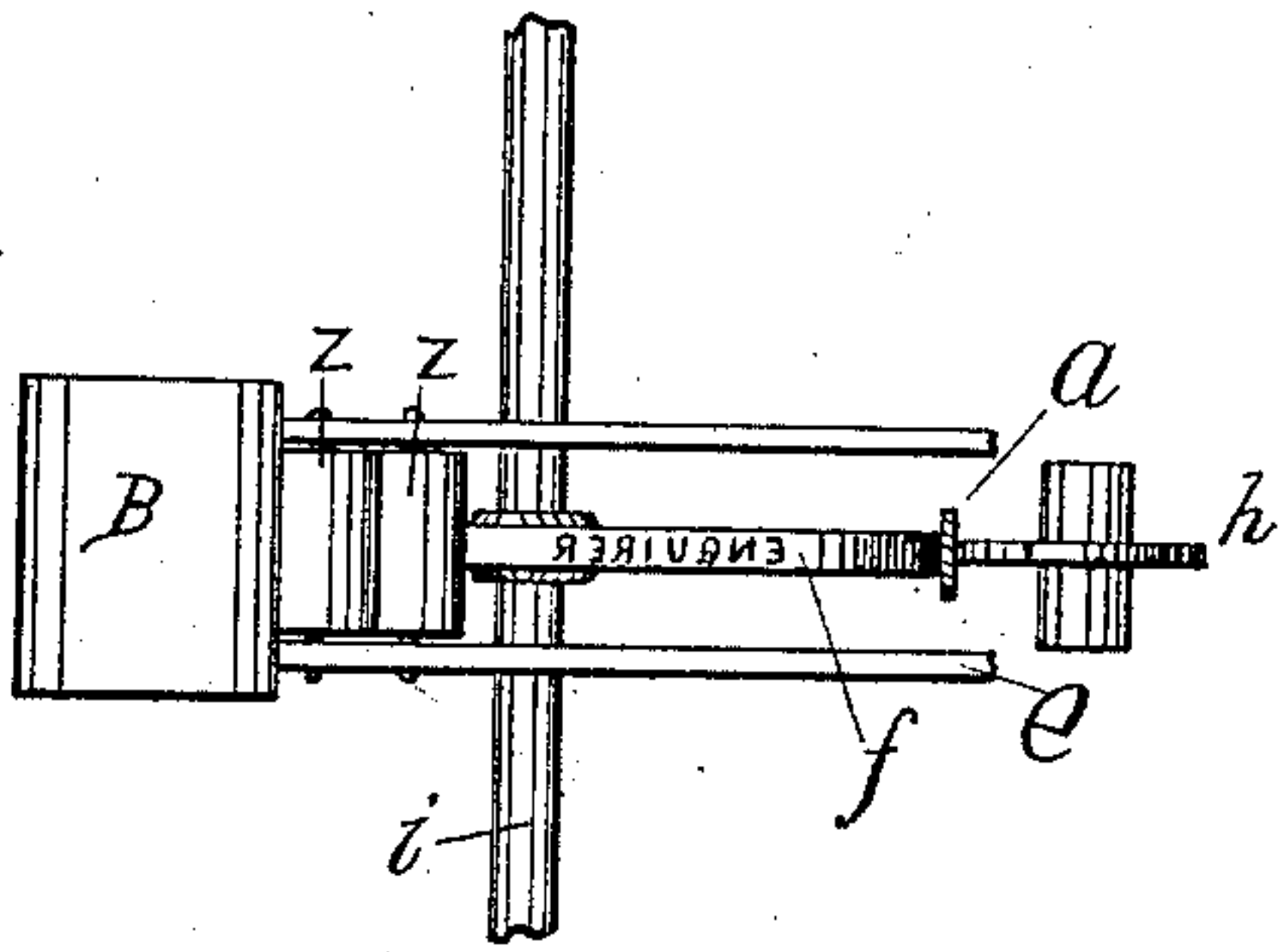


Fig. 2.

Fig. 3.

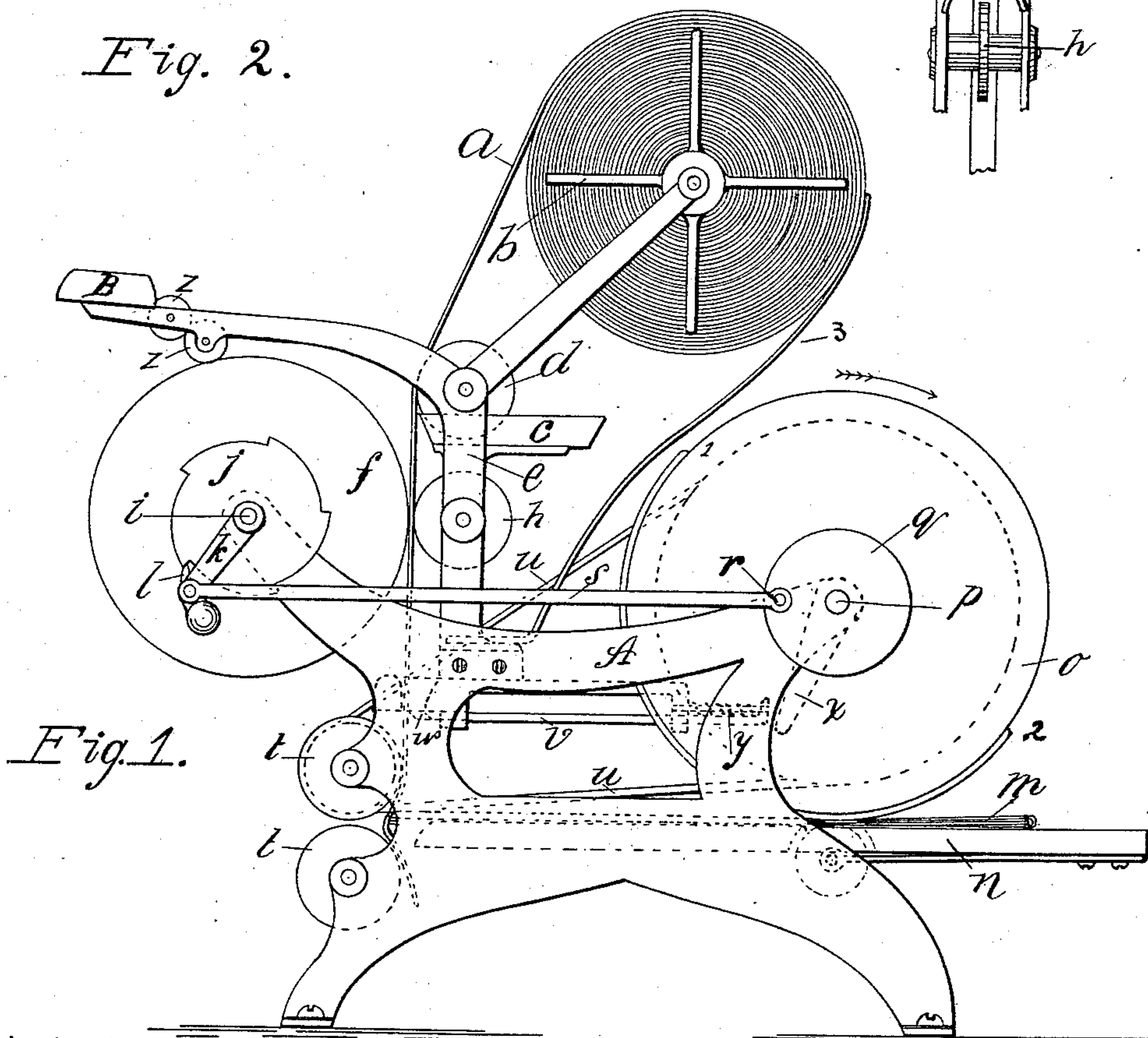
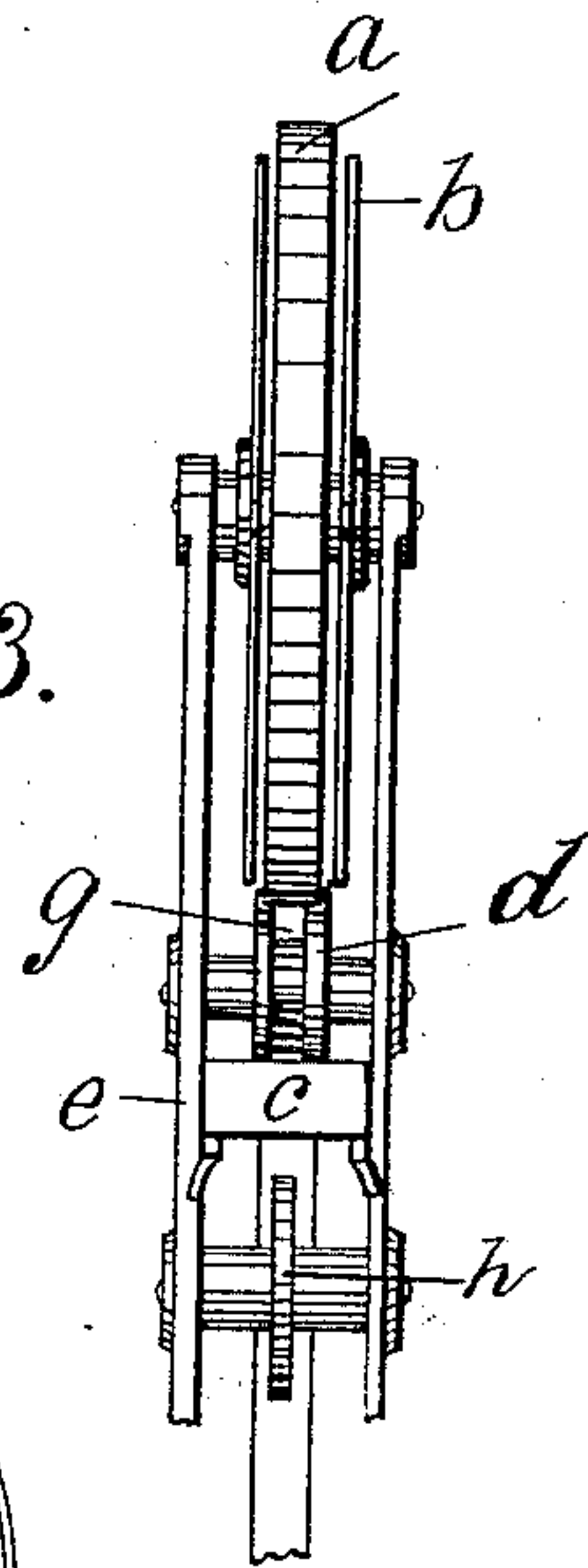


Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES H. WOODARD, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO JOSEPH W. SHERWOOD, OF SAME PLACE.

MACHINE FOR SEALING NEWSPAPERS.

SPECIFICATION forming part of Letters Patent No. 285,337, dated September 18, 1883.

Application filed June 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. WOODARD, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented an Improved Machine for Sealing Newspapers, of which the following is a specification.

My invention relates to a machine for sealing the free edges of a newspaper or other folded publication.

The object of my invention is to rapidly cut, fold, and paste over the free edges of folded newspapers short narrow strips of paper for the purpose of indicating to the publisher whether papers returned to him by his agents as unsold have been unfolded.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation. Fig. 2 is a partial plan, and Fig. 3 is a partial elevation.

Like figures indicate the same parts in all the views.

a is a long narrow strip of paper coiled on a reel, *b*.

c is a dish for containing paste.

d is a grooved roll mounted in suitable bearings in frame *e*, so as to revolve and to dip into the paste in dish *c*. Roll *d* corresponds in length to the width of strip *a*, and the groove *g* therein is for the purpose of applying the paste along the edges of *a* and leaving the center unpasted.

f is a feed-roll for drawing strip *a* from the reel.

h is an idler-roll, shorter than groove *g* in roll *d*, and resting against feed-roll *f*, which is secured to a shaft, *i*. *j* is a ratchet-wheel, also secured to the same shaft.

k is an arm turning loosely on shaft *i*, and having a pawl, *l*, pivoted thereto and adapted to engage ratchet-wheel *j*.

m is a folded newspaper, which is pushed forward over the table *n* by a friction-wheel, *o*, which is mounted on a shaft, *p*, having bearings in main frame A. The periphery of wheel *o* is cut away from 1 to 2 sufficiently to clear paper *m*. *q* is a face-plate, also secured to shaft *p*. It is provided with a wrist-pin, *r*, which is connected with arm *k* by connecting-rod *s*.

t t are rollers extending from side to side of frame A, and driven by a belt, *u*, from a pulley secured to shaft *p*, and shown in dotted lines beyond wheel *o*.

v is a sliding knife-bar carrying a cutting-edge at *w*. Said knife-bar is forced forward by a tappet, *x*, secured to shaft *p'*, and is retracted by a spring, *y*. *z* is a flat spring resting on strip *a*, and acting as a brake to keep said strip taut.

The operation of my machine is as follows: Strip *a* is drawn over roll *d*, receiving therefrom paste along its edges, and then drawn downward between rolls *f* and *h* till the end reaches below knife *w*. Power is applied in any suitable manner to turn shaft *p* and wheel *o* in the direction indicated by the arrow. While the smaller diameter of wheel *o* is opposite table *n* a newspaper, folded in the manner usual when sent to news agents, is laid upon the table, with the free or outer edges under the center of wheel *o*. When the larger diameter of the wheel comes opposite the table, the paper is caught and slid forward on the table. At the same time, feed-roll *f* is partially revolved by means of face-plate *q*, connecting-rod *s*, arm *k*, pawl *l*, and ratchet-wheel *j*, thus drawing strip *a* downward till the lower end is about two and one-half inches below the knife. As soon as the downward movement of the strip is complete tappet *x* forces knife *w* forward and the strip is cut in two. At the same instant, the edges of the paper *m* come in contact with the portion cut off at about the center of its length and thrust it forward between rollers *t t*, which grip the paper and draw it through between them, doubling the strip over the edges of and pressing it down upon the paper, where it adheres. Paper *m* cannot now be unfolded without tearing the strip at the fold.

It is desirable in some cases to print upon the sealing-strip the name of the paper or some other distinguishing mark. For this purpose feed-roll *f* has type cut in its periphery, as seen in Fig. 2, and an ink-fountain, B, and distributing-rolls *z z* are provided.

I claim as my invention—

A machine for sealing the free edges of folded

papers, consisting of the following elements:
a main frame, a table mounted on said frame,
means for sliding a folded newspaper horizon-
tally on said table, means for feeding at regu-
lar intervals a narrow strip of paper from a
continuous roll in front of the advancing edge
of said newspaper, means for applying paste
to one side of said strip of paper, means for
cutting successive portions from said strip, and

means for folding said cut portion over the ro-
edges of and pressing it upon the said news-
paper, all constructed and combined substan-
tially as shown and described.

JAMES H. WOODARD.

Witnesses:

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H. P. HOOD.