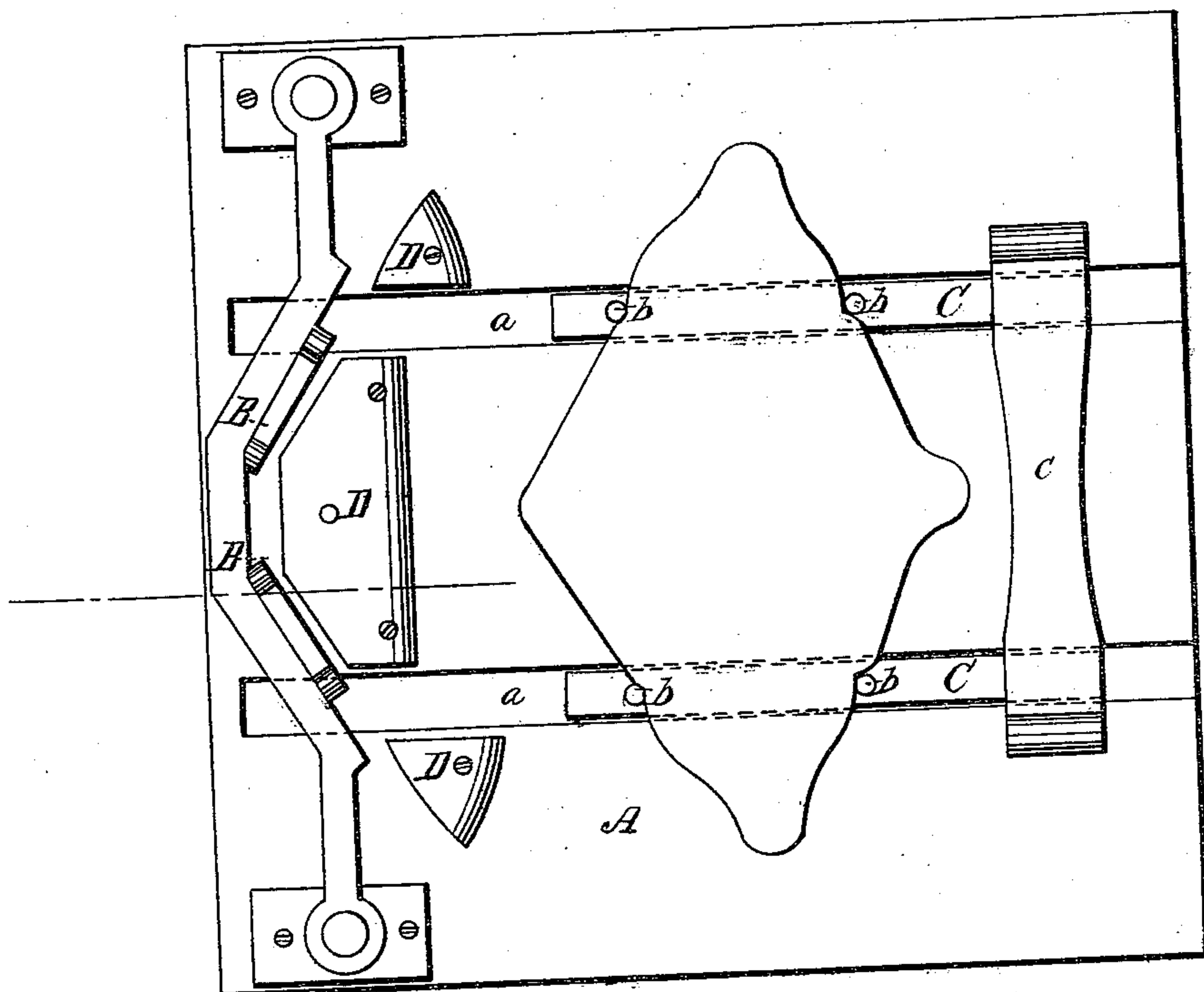


*G. H. Reay.*  
*Envelope Mach.*

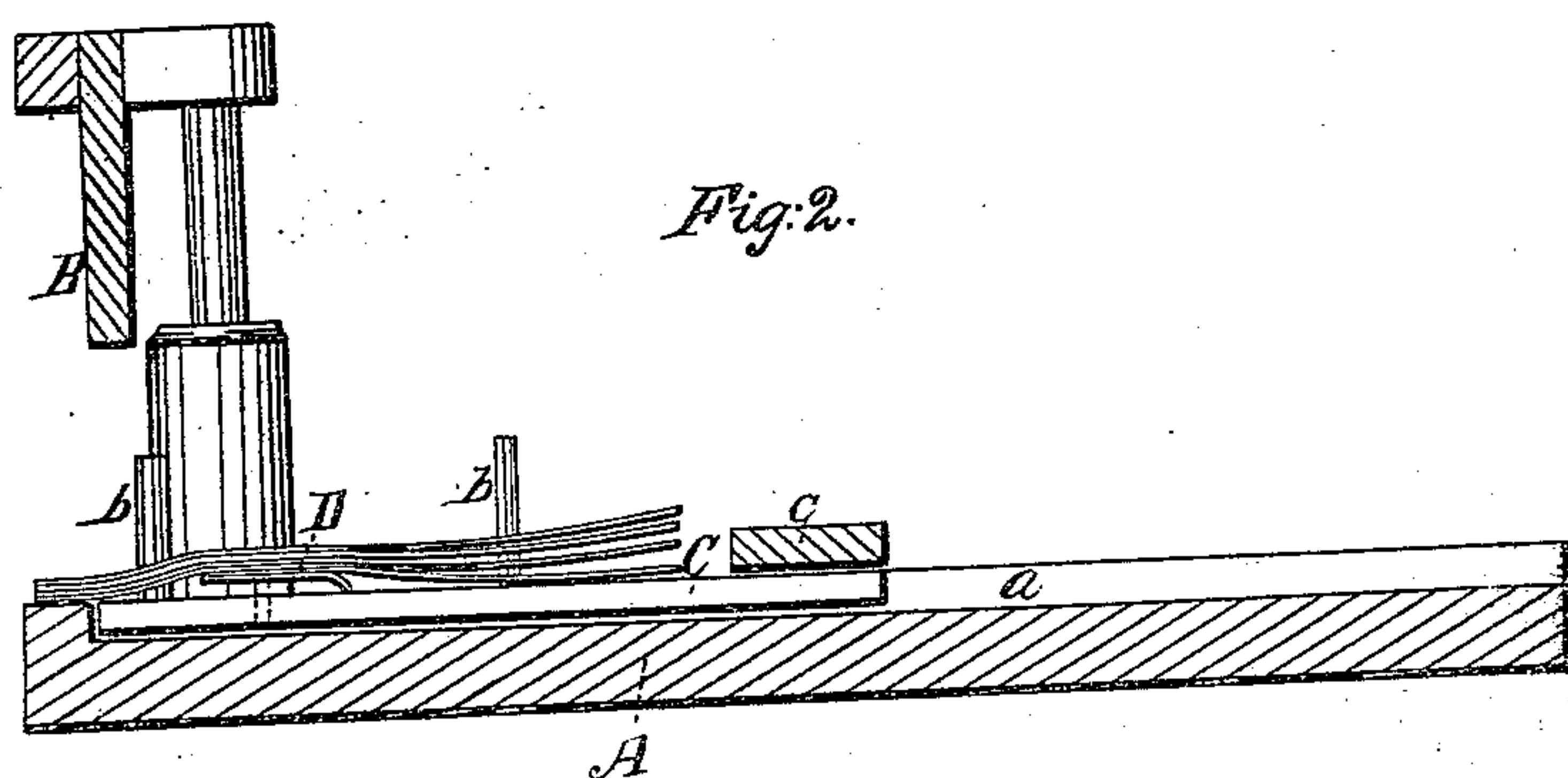
*Nº 61687.*

*Patented Jan. 29. 1867.*

*Fig. 1.*



*Fig. 2.*



*Inventor:*

*Witnesses:*

*Wm Dean Overell*  
*M. M. Livingston*

*Geo H Reay*

# United States Patent Office.

GEORGE H. REAY, OF NEW YORK, N. Y.

*Letters Patent No. 61,687, dated January 29, 1867.*

## IMPROVEMENT IN ENVELOPE MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE H. REAY, of the city, county, and State of New York, have invented a new and useful Improvement in Envelope Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan or top view of this invention.

Figure 2 is a longitudinal vertical section of the same.

Similar letters of reference indicate like parts.

This invention consists in the arrangement of a movable slide or arms fitted into guide-grooves in the bed of an envelope machine, and provided with lips or studs which serve to hold the pile of blanks in position in such a manner that by means of said sliding arms the pile of blanks can be pushed in under the pickers or gummers or removed from under said pickers without stopping the machine or interrupting its regular motion. It consists, further, in making that portion of the bed which is situated under the pickers or near the place where the pickers would strike the bed if allowed to come down upon it, uneven or rugged, either by attaching to the bed a projection, or by providing it with a depression, in such a manner that the pickers in coming down upon the pile of blanks cause the same to bend; and by these means the separation of the blanks, one from the other, is materially facilitated.

A represents the bed of an envelope machine, on which are supported the pickers B and all the other parts requisite to gum and fold the envelopes. The pickers B rise and fall by the action of a cam in the usual manner, and the pile of blanks is pushed under them by means of sliding arms C, which move in suitable guide-grooves, *a*, in the bed. The upper surface of these arms is flush with that of the bed, so that the blanks in reality rest upon the bed; but said arms are provided with projecting studs or lips, *b*, which bear against the edges of the blanks and hold the pile in position, and which, when said arms are moved in or out, compel the pile of blanks to move with the same. The two sliding arms are connected by a cross-piece, *c*, and it is obvious that instead of having two arms a single arm or slide might be used, which would produce the same or a similar effect. By the action of these arms the pile of blanks can be pushed under the pickers without interrupting the motion of the machine. On the bed is fastened a projection or ridge, D, close to that portion of said bed where the pickers would strike the same if allowed to come down. This projection or ridge is either made in one continuous piece or it may be made in sections, or instead of applying a ridge to the surface of the bed, that portion of said surface situated right under the pickers might be depressed. When the pickers come down upon the blanks they turn the edges of the same down over the ridge D, (or force them down into the depression, if in place of the ridge a depression is made in the bed,) and by these means the separation of the blanks, one from the other, is greatly facilitated, as will be seen by referring to fig. 2, where the blanks are represented in the position which the same assume when struck by the pickers.

What I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of a slide or sliding arms in suitable guide-grooves in the bed of an envelope machine, in combination with the pickers or gummers, constructed and operating substantially as and for the purpose set forth.

2. Providing the bed with a ridge or depression to operate in combination with the pickers or gummers, substantially as and for the purpose described.

GEO. H. REAY.

Witnesses:

WM. TREWIN,

ALEX. F. ROBERTS.