

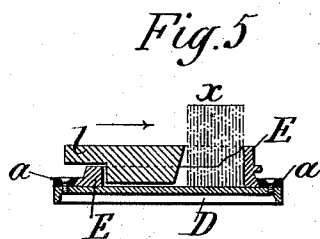
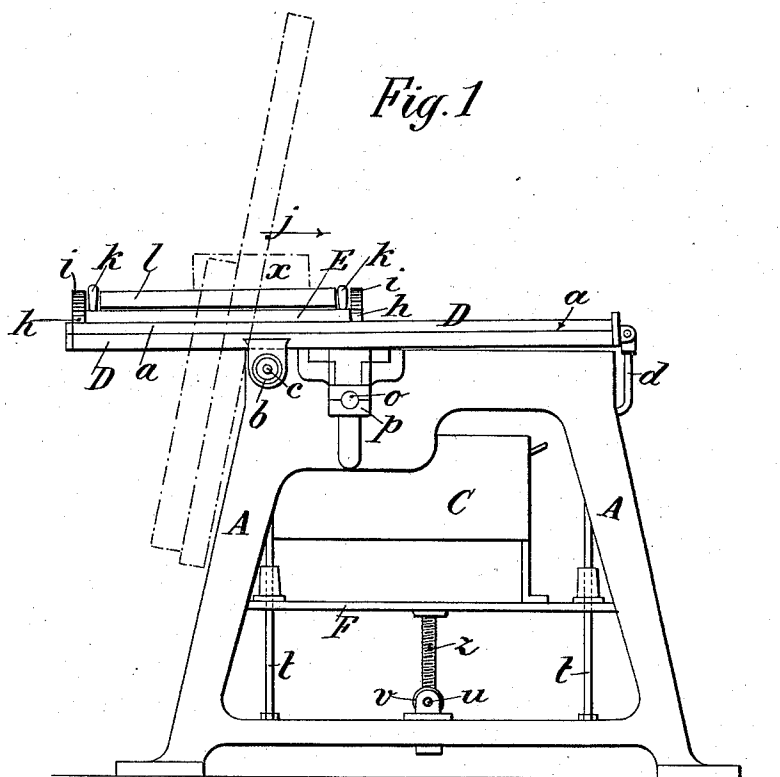
(No Model.)

2 Sheets—Sheet 1.

J. V. GALICHER.
BOOKBINDER'S GLUING MACHINE.

No. 567,742.

Patented Sept. 15, 1896.



Witnesses:

F. H. Aliman
Peter A. Ross

Inventor:

Jules Victor Galicher
by *Henry Combs*
his Attorney

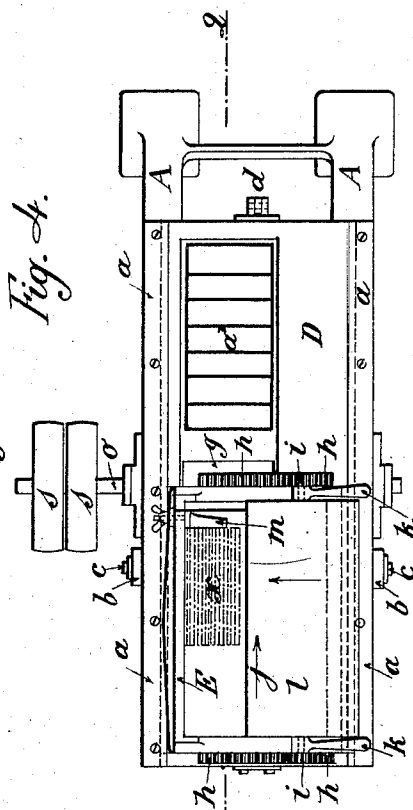
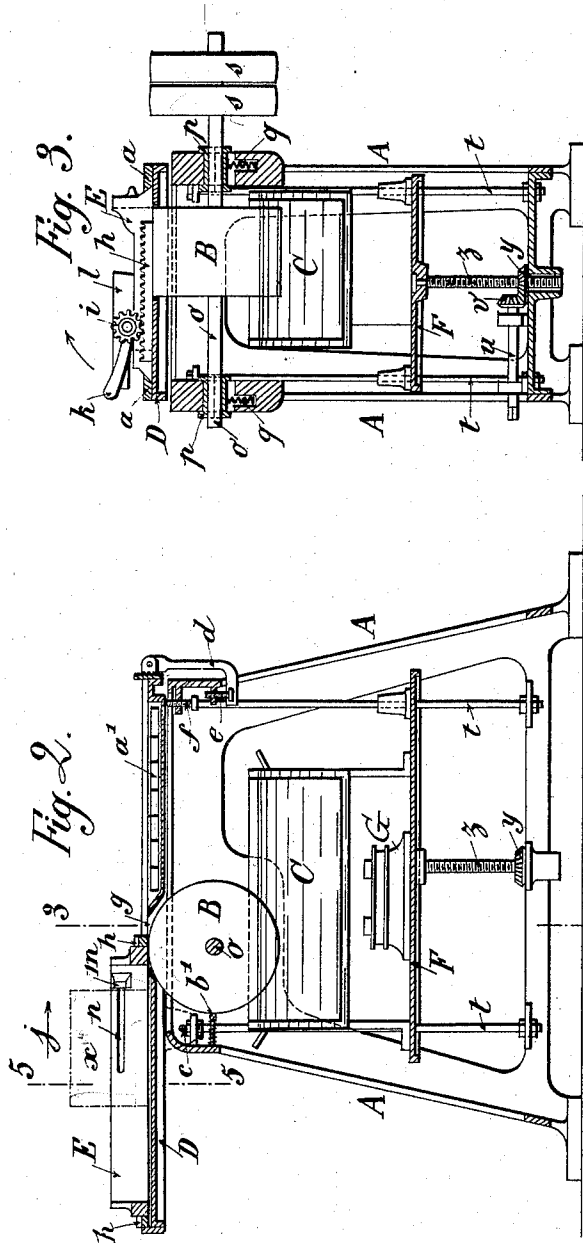
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2 Sheets—Sheet 2.

J. V. GALICHER.
BOOKBINDER'S GLUING MACHINE.

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Witnesses:
J. W. Aliman
Peter S. Ross.

Inventor:
Jules Victor Galicher
by Henry Courmado
his Attorney.

UNITED STATES PATENT OFFICE.

JULES VICTOR GALICHER, OF PARIS, FRANCE.

BOOKBINDER'S GLUING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 567,742, dated September 15, 1896.

Application filed April 29, 1896. Serial No. 589,532. (No model.)

To all whom it may concern:

Be it known that I, JULES VICTOR GALICHER, a citizen of the French Republic, residing at Paris, France, have invented certain new and useful Improvements in Machines for Gluing or Sizing Books and the Like, of which the following is a specification.

This invention relates to a machine for applying glue or size to the backs of books, pamphlets, and the like after they have been cut, as well as to pads composed of single sheets.

The machine consists, essentially, of a sizing-roller mounted rotatively in a size-fountain and adapted to apply a coating of the liquid size, glue, or the like to the books or pads mounted on a movable carriage-frame which slides on a table, which latter is adapted to be tilted, as hereinafter specified. The details of the construction and the operation of the machine will be hereinafter described with reference to the accompanying drawings, wherein—

Figure 1 is a front elevation of the machine.
Fig. 2 is a longitudinal vertical section of the same in the plane indicated by line 2 2 in Fig. 4. Fig. 3 is a transverse vertical section of the same in the plane indicated by the line 3 3 in Fig. 2. Fig. 4 is a plan of the machine.
Fig. 5 is a transverse section in the plane indicated by line 5 5 in Fig. 2.

A is the main frame of the machine, in which is rotatively mounted a sizing-roller B, which rotates in a suitable size-fountain C in the frame, said fountain containing the liquid size, glue, &c. On the frame A is mounted a bed or table D, furnished with guideways *a a*, in which is mounted to slide longitudinally of the machine a carriage-frame E, in which are placed the books *x*, (shown in dotted lines,) to the backs of which the size is to be applied by the roller B.

The table D has lugs or ears *b b* at its sides, which turn on trunnions *c c* on the frame A, so that the table D may be turned to the tilted position indicated in dotted lines in Fig. 1. The object of this mode of mounting the table is to afford access for filling the fountain C, examining and cleaning the roller B, &c. When the table D is down in place, it is secured by a hinged hook-arm *d*, situated at its free end, the hook on said arm engag-

ing a screw *e* in the main frame. The elevation of the bed D is regulated by a screw *f*, set in a lug on the main frame and taking under the table. The elevation and depression of the table regulate the extent to which the upper surface of the roller B projects up through an opening *g* in the table D.

The carriage-frame E has in it a locking-block *l*, which has mounted on its respective ends pinions *i*, each provided with a crank or operating handle *k*, and these pinions engage racks *h* at the respective ends of the carriage E. The block *l* serves to lock the book or books *x* in the carriage E, as in a chase. On one of its sides the frame E has a stop-guide *m*, adapted to be adjusted along a slot *n* in the side plate of the carriage E and fixed by a nut or screw when set. The books are set up to this stop-guide *m* and clamped laterally by the block *l*.

The sizing-roller B has journals *o*, one of which bears the usual tight and loose driving-pulleys *s s*. The journals *o* rotate in boxes *p* in guideways in the main frame, being supported on springs *q*, which provide an elastic yielding support for the roller. The quantity of size taken up and applied to the books is regulated by a spring-scraper *b'* of a well-known kind common in gum-applying machines.

The fountain C is mounted on a platform F, which is guided on uprights *t* in the main frame and adapted to be raised or lowered at will by a screw *z* underneath the platform. This screw is adapted to be rotated by means of a bevel-wheel *y* on the screw and another bevel-wheel *v* on the crank-shaft *u*, rotatively mounted in the frame. The fountain may be kept warm by means of a lamp G on the platform under the fountain. Any mode of heating the fountain or roller B may be employed, and the former may be set in a water-bath, as indicated in Fig. 2. This adjustment is to regulate the degree of immersion of the roller B, which latter may be of any suitable material.

The operation is as follows: The books to be sized are placed in the carriage E up to the stop *m* and clamped by the block *l*. The roller B being in motion, the carriage E is pushed forward in the direction of arrow *j*, and in passing over the roller B the size is

applied to the backs of the books, which rest finally on a grid a' , which rests on this part of the table D. I may say here that the carriage-frame E is simply a frame without a bottom, and that when the carriage is in position to receive the books the latter are placed backs down on the table D, as seen in Fig. 5, this portion of the table being solid, while the front end (see Figs. 2 and 4) is hinged out and contains the grid a' . In passing over the yielding roller B the size is applied. In order to get at the fountain C and roller B for refilling, cleaning, &c., the table D is tilted on its trunnions or hinges to the position indicated in dotted lines in Fig. 1, the hinging-point on the table being at some distance from its overhanging end, or near its middle, and at one edge of the frame A, so as to allow the table to tilt to the position shown.

Having thus described my invention, I claim—

1. In a machine for sizing books, pamphlets and the like, the combination with a suitable supporting-frame, of a tilting table mounted pivotally near the middle of its length on said frame and at a point near one side thereof, a movable carriage to hold the books mounted to travel on said table, and means, mounted in the frame below said table, for applying the glue or size to the books on said moving carriage, substantially as set forth.

2. In a machine for applying size, glue, or the like to the backs of books, pamphlets, and the like, the combination with a suitable frame A, a tilting table D, mounted on said frame and provided with guideways a , and a carriage-frame E mounted in said guideways and provided with means for clamping the books placed therein, of a sizing-roller B, rotatively mounted in the frame A on yielding supports and projecting up through an aperture in the table D, and a size-fountain C, mounted in the frame under said roller B, substantially as set forth.

3. In a machine for sizing books, pamphlets and the like, the combination with the frame, the tilting table pivotally mounted on the frame and having an aperture for the sizing-roller, the size-fountain and sizing-roller mounted in the frame below said table, a movable carriage to hold the books mounted on said table, and means substantially as described for raising and lowering the end of the table on the frame opposite to the point where it is pivoted, as set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JULES VICTOR GALICHER.

Witnesses:

EDWARD P. MACLEAN,
ALEXANDRE MATHEWS.