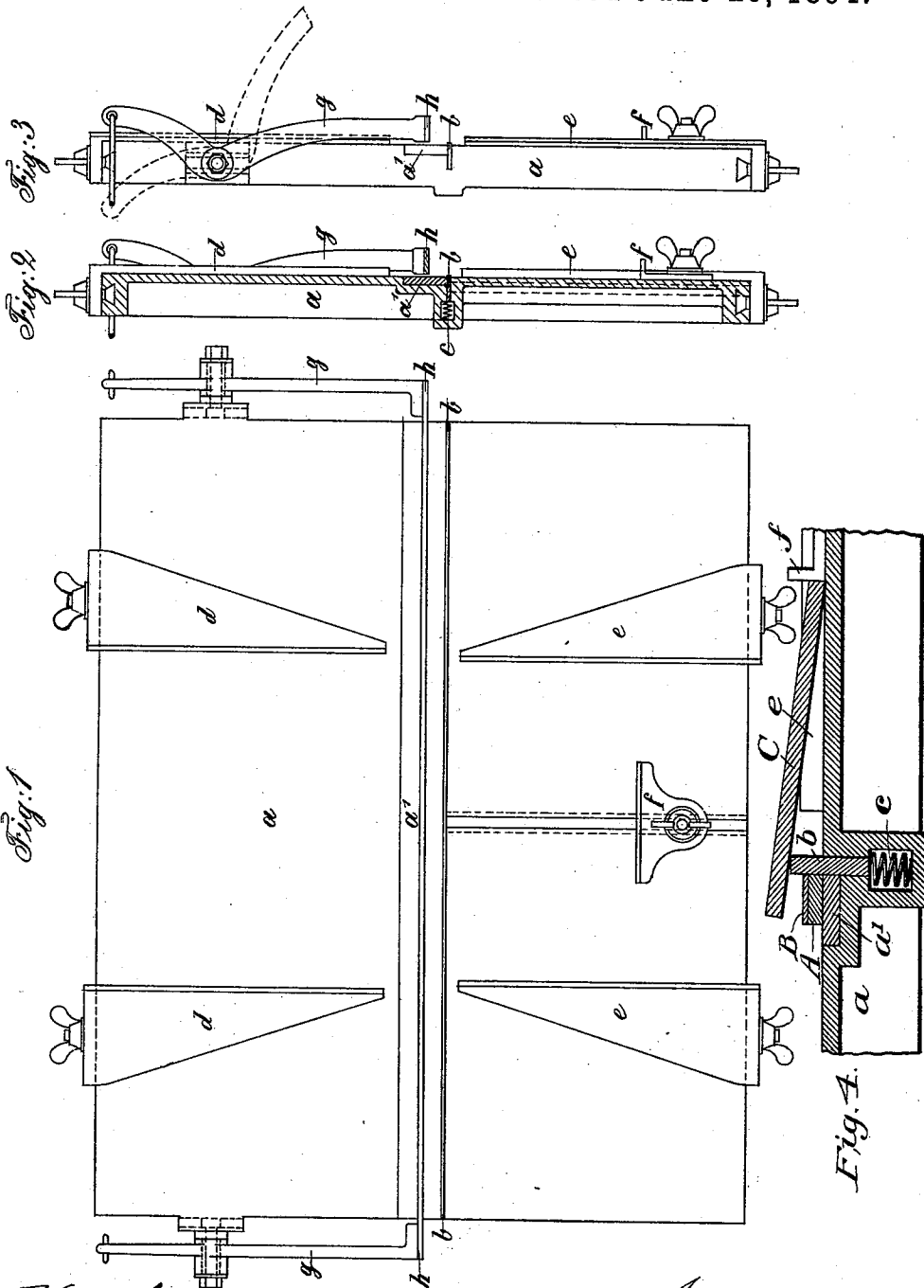


(No Model.)

J. TEMLER.
APPARATUS FOR APPLYING GUMMED ORNAMENTAL PAPER STRIPS
ON PASTEBOARD.

No. 521,871.

Patented June 26, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH TEMLER, OF WARSAW, RUSSIA.

APPARATUS FOR APPLYING GUMMED ORNAMENTAL PAPER STRIPS ON PASTEBOARD.

SPECIFICATION forming part of Letters Patent No. 521,671, dated June 26, 1894.

Application filed June 5, 1893. Serial No. 476,644. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH TEMLER, a subject of the Emperor of Russia, and a resident of Warsaw, in the Empire of Russia, have invented a new and useful Apparatus for Applying Gummed Ornamental Paper Strips on Pasteboard, of which the following is a specification.

In the commercial manufacture of articles made of paper pulp and papier-maché the paper strips required to be affixed thereto are first provided with an adhesive substance and then placed in measured up lengths and widths upon the corresponding part of the articles and there firmly rubbed down. When several similar pieces are to be provided in the same manner with paper strips the providing of the paper strips of uniform width as well as the determination of the similar parts in all the pieces is a very troublesome and inconvenient process for the operatives considering the tools and means at their command thus requiring considerable skill to effect the necessary manipulations.

The object of this apparatus is to facilitate the production of paper strips of equal widths from sheets of paper cut into given breadths relatively to the lengths and the affixing of such strips to similar or corresponding parts of the paper pulp articles under treatment so as to enable unskilled persons to successfully accomplish these operations. The same is shown in the accompanying drawings, in which—

Figure 1. is a plan, Fig. 2. a cross section and Fig. 3 a side view of my improved apparatus. Fig. 4. is a detail view illustrating the method of applying the strips.

The improved apparatus has the following characteristic features.

a is the plate in the center of which is let in in the direction of its width, a rail a' of hard material. Parallel with one of its longitudinal sides a bar b is arranged within a groove of the plate a in such a manner as to slightly project (from about two to three millimeters) above the surface of the plate a . The bar b bears with its lower edge upon the springs c which allow it to sink in its groove under a slight pressure exerted thereon from above until its upper edge is flush with the surface of the plate a .

$d d$ and ee are guiding pieces arranged on both sides of the plate a and adjustable in the direction of the length of the latter. In the middle of one of the halves of the plate and perpendicularly to its longitudinal direction is arranged an adjustable rail f , the bearing surface of which is parallel to the bar b .

$g g$ are levers fulcrumed on suitable pins and horizontally adjustable on the small sides of the plate a . The ends of the lever arms which are outside are both connected to a treadle. At the inner ends of the arms is arranged a ruler h parallel to the bar b and the lower edge of which is in close proximity to the upper surface of the plate a when the levers g are at rest, as shown in Fig. 3.

This apparatus is operated in the following manner. The guides d are so adjusted as to guide both edges of the paper cut of a length corresponding to that of the paper strips required. Between these guides the paper sheet A previously smeared with adhesive material B is so placed as to abut with its front edge against the bar b . The interval which exists between the bar b and the ruler h correspondingly adjusted with the aid of the movable pins or fulcrums of the levers g corresponds to the width required for the paper strips which are severed off by means of a circular knife drawn by hand along the ruler in a well known manner. After severing the strip the paper sheet is drawn back a sufficient distance and the ruler h is raised by the levers g as shown in dotted lines in Fig. 3. The guides $e. e$ are adjusted according to the dimension of the pulp pieces on which the paper strips are to be affixed. The guide f having been brought therefor in a suitable position determines the distance, from the corresponding or respective edge of the above pieces, at which the paper strip is to be placed. When the paper pulp piece C is placed between the guide, rails $e. e$ with its respective edge against the guide f . and then pressed down upon the plate a , the surface of the pulp C comes into contact with the paper strip A left on the plate a and which being provided with adhesive material B sticks tightly thereto. It needs no further explanation to show that the apparatus above described may not only be advantageously

used for the exact, and in the case of several pieces, for the uniform application of paper strips on pulp surfaces, but also for the application of such strips on edges or corners of articles.

In applying the gummed strip to the edge of a piece of card-board, the card-board is so positioned that its edge projects above the bar *b* only partially across the width of the gummed strip. On then depressing the card-board only a portion of the width of the gummed strip is applied to the under side of the card-board. The balance of the gummed strip is then folded over the edge of the card-board and is applied to the upper side of the card-board. In applying the gummed strip along a corner of a box the same method is used. In applying the gummed strip around a corner, say of a card-board box, the side of the box is positioned on the bar *b*, so as to be above a portion only of the length of the gummed strip. On then depressing the box, a portion only of the length of the gummed strip is applied to the side of the box, and the balance of the length of the gummed strip is then folded around the corner of the box and is applied to the end of the box.

The use of this apparatus is more particularly advantageous when two persons work together one of whom manipulates the sheets of paper, the ruler and the circular knife while the other attends to the adjustment and removal of the pulp piece.

While the apparatus is in use the plate or table *a* is stationary and horizontal. The depressible bar *b* is centrally-located upon the plate or table, that is to say, it is so located that there is room on one side of it so that the gummed strip can rest upon the plate or table, and room on the other side of it so that the card-board can be supported by the plate or table.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In a machine for applying gummed strips to card-board or other surfaces, a plate or table *a* having a bar *b* normally projecting above its surface and depressible to a position flush with said surface, an adjustable ruler *h*, adjustable to and from said bar *b* whereby the width of the gummed strip is determined, and movable away from the surface of the table whereby it is out of the way when the card-board is brought into contact with said gummed strip, and adjusting gages *d d* having an adjustment in the direction of the length of said bar *b* for determining the length of the gummed strips, in combination with adjusting gages *e e* and *f* for the card-board located on the side of the bar *b* opposite to that on which the ruler *h* and gages *d d* are located, said gages *e e* having an adjustment in the direction of the length of said bar *b* for determining the length of the card-board, and the gage *f* being adjustable to and from the bar *b* for determining the position on the card-board for the application of the gummed strip, substantially as set forth.

2. In a machine for applying gummed strips to card-board or other surfaces, a plate or table *a* having a bar *b* normally projecting above its surface and depressible to a position flush with its surface, in combination with an adjustable ruler *h* adjustable to and from said bar *b* and movable away from the surface of the plate or table, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH TEMLER.

Witnesses:

HERNANDO DE SOTO,
C. F. ROSENCRAITZ.