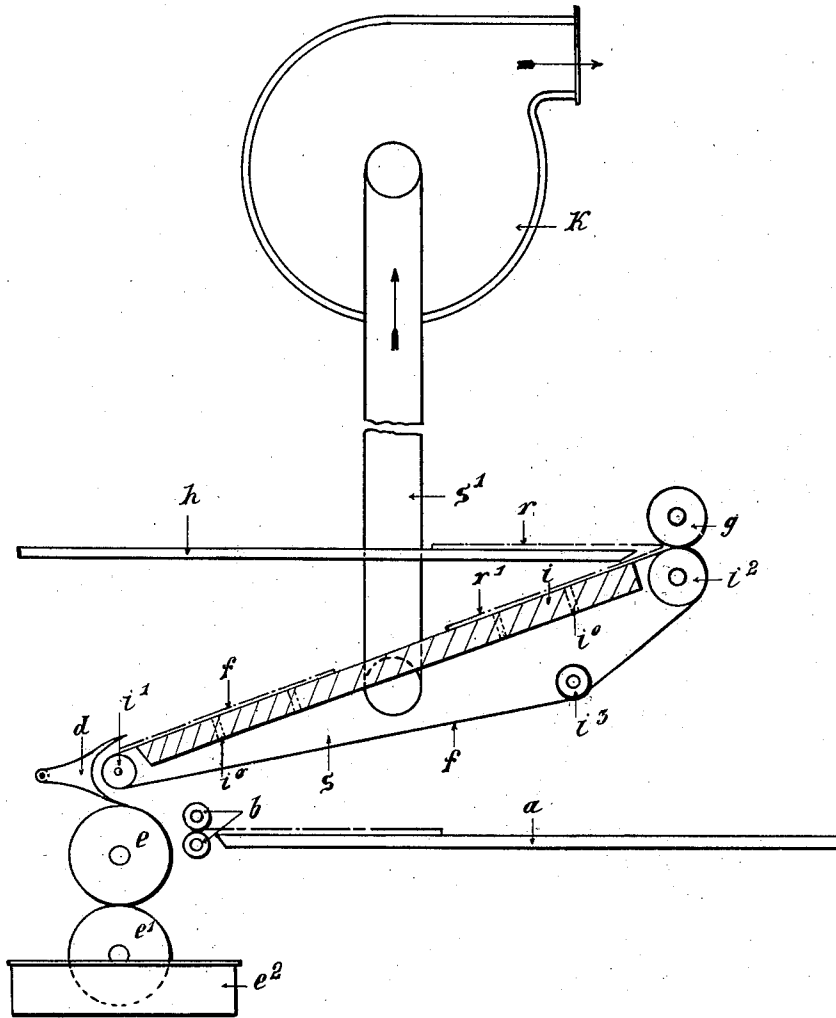


PAPER SHEET GLUING MACHINE.
APPLICATION FILED MAY 29, 1911.

Patented Apr. 8, 1913.



L. E. Barkley.
A. S. Kresler.

Walter Kellner,
by Thoms. Appelman
att'y

UNITED STATES PATENT OFFICE.

WALTER KELLNER, OF BARMEN, GERMANY.

PAPER-SHEET-GLUING MACHINE.

1,058,440.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed May 29, 1911. Serial No. 630,199.

To all whom it may concern:

Be it known that I, WALTER KELLNER, of Wiescherstrasse 13, Barmen, Rhenish Prussia, Germany, have invented new and useful
5 Improvements in Paper-Sheet-Gluing Machines, of which the following is a full, clear, and exact specification.

My invention has reference to machines by which a sheet of paste-board and a sheet
10 of paper or textile fabric are glued together, the paste-board being transported on a table and the covering sheet guided over a roller to be fed with glue and then are carried to
15 meet the paste-board for being united therewith. Now in order to obtain a fabric without folds and wrinkles and with a smooth surface I have constructed my machine in
20 such a manner that the glued covering sheet which on its way to the meeting point with the paste-board is supported on an endless transporting band of textile fabric with the
25 glued surface outward travels a long way during which the paper sheet may be thoroughly impregnated or get moistened and at the same time is firmly pressed down or
drawn on the said transporting band, so that
no folds and wrinkles can be formed and the sheet may be smoothly pasted on the
paste-board.

30 In order to make more clear my invention I have illustrated the same on the accompanying sheet of drawing, showing the apparatus in its main or essential features.

Referring to the drawing the numeral *a*
35 indicates a table supporting the single sheets of paper or the like which should be pasted on the paste-board, that is placed in single sheets on a second table *h* being arranged above the table *a* as shown. In front of said
40 table *a* a pair of rollers *b* is situated which receive the single paper sheet or blank and guide it to and upon the surface of the glue feeding roller *e*. Said roller *e* is in more or
45 less close contact with a roller *e*¹ that dips into a receptacle *e*² filled with glue. By means of the said roller *e* the blank is provided on its surface with glue and then it is
50 freed from said roller by means of a fork or the like instrument *d* and turned the glued surface upward and laid upon an endless
belt *f* of textile fabric. Said belt is supported by an inclined table *i* having arranged at both of its ends the rollers *i*¹, *i*²
respectively and underneath of its bottom a

roller *i*³, said three rollers serving as a guide 55 for the said endless belt *f*. The roller *i*² cooperates with a roller *g* and these rollers *i*² and *g* are located in front of the table *h* as shown. The side portions of the room between the bottom of the table *i* and the bot- 60 tom portion of the belt may be closed in any convenient manner to form a chamber *s* into which terminates a pipe *s*¹ which is in connection with a fan wheel *k* by the rotation of which a sucking action within the cham- 65 ber *s* is obtained. As shown on the drawing the rollers *i*¹, *i*² and *g* are widely spaced apart in order to impart to the glued blank a long travel from one end of the table *i* to the other end during which travel the blank 70 may be thoroughly moistened or impregnated with the moisture of the glue so that afterward no folds can get in the blank and to further improve this action the blank is by means of the sucking action of the fan *k* 75 which is exerted through the holes *i*⁰ of the table *i* and the textile fabric of the belt smoothly forced or drawn down on the belt *f* and by this means both blanks the paste-board *r* and the sheet *r*¹ when passing the 80 rollers *i*², *g* are firmly united together and the first one lined with the sheet in a manner that not a bit of a fold or wrinkle appears on its surface.

I declare that what I claim is:

85 1. In a paper gluing machine, means for applying glue to the under side of a sheet, means coacting with the gluing means for inverting the sheet, a conveyer on which the inverted sheet is carried into contact with a 90 second sheet, suction means for firmly holding the sheet on the conveyer, and means for pressing the two sheets into unison.

2. A sheet gluing machine comprising 95 means for applying glue to a sheet, a conveyer on which the sheet is carried with its glued side up, suction means coacting with the conveyer for holding the sheet firmly thereon, means for guiding a second sheet into coöperative relation with the conveyer 100 for bringing the two sheets together, and means for pressing the two sheets into unison.

WALTER KELLNER. [L. s.]

Witnesses:

CHAS. J. WRIGHT,
ALFRED HENKEL.