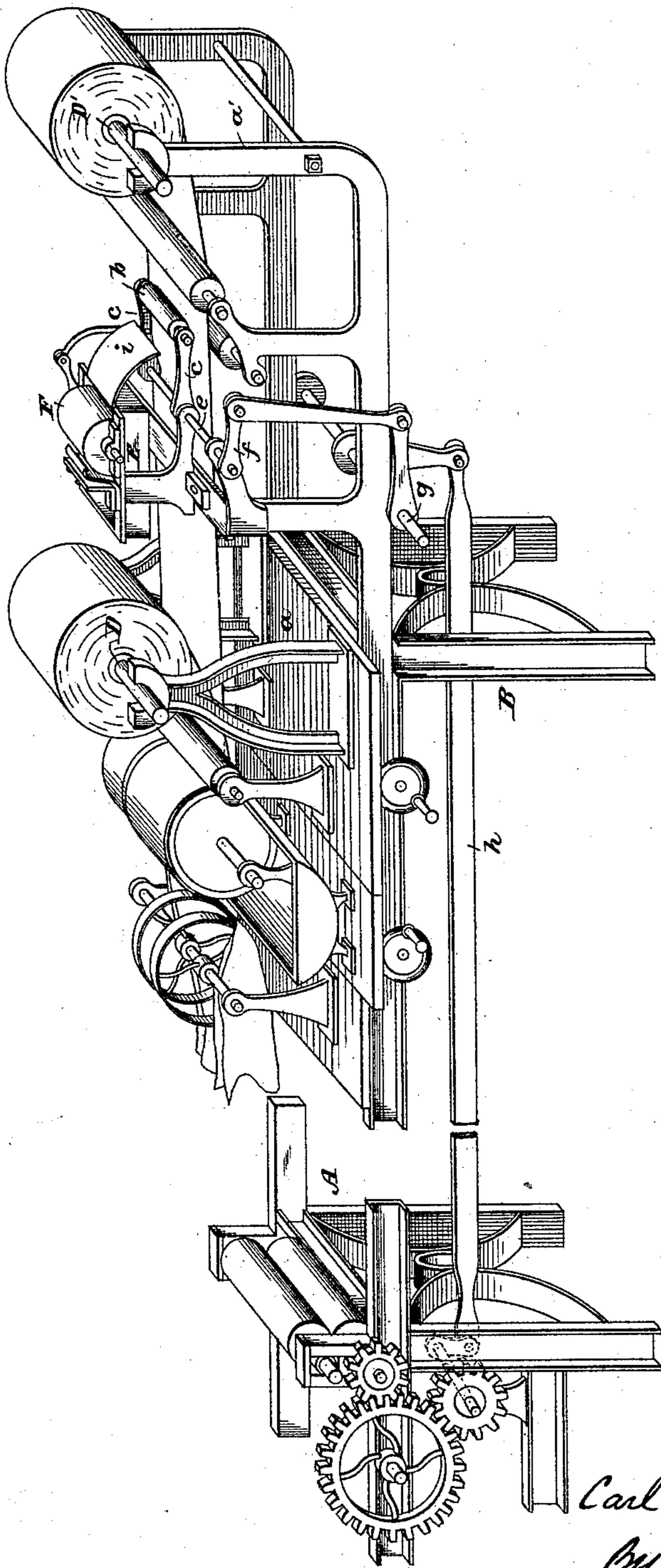


(No Model.)

C. F. SCHMIDT.
MANUFACTURE OF PAPER BAGS.

No. 378,526.

Patented Feb. 28, 1888.



Attest:
Courtney Cooper,
Jr. f. fayers.

Carl F. Schmidt.
Inventor:
My Master & Freeman
Atty.

UNITED STATES PATENT OFFICE.

CARL F. SCHMIDT, OF ELBERFELD, GERMANY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO LUCIUS G. FISHER, OF CHICAGO, ILLINOIS.

MANUFACTURE OF PAPER BAGS.

SPECIFICATION forming part of Letters Patent No. 378,526, dated February 28, 1888.

Application filed April 25, 1885. Serial No. 163,445. (No model.)

To all whom it may concern:

Be it known that I, CARL F. SCHMIDT, a subject of the Emperor of Germany, residing at Elberfeld, Germany, have invented new and useful Improvements in the Manufacture of Paper Bags, of which the following is a specification.

My invention relates to that class of paper bags in which each bag consists of two layers of paper forming a double paper bag; and my invention consists in the method, substantially as hereinafter set forth, of making such bags.

In the accompanying drawing the view illustrates in perspective sufficient of a paper-bag machine to enable my invention to be understood.

A represents the frame of the paper-bag machine, and B the frame of the extension thereof which is used in connection with my improvement, the said extension constituting in some cases a part of the main frame, or being an independent structure adapted for application to machines already in use.

In standards or bearings *a a'* of the frame B turn the journals or shafts of rollers D D', upon which are wound bands or strips of paper, the paper on the roll D being the paper which is to form the inner section of the bag, and that on the roll D' the paper which is to form the outer section of the said bag. In connection with these rolls, which are arranged at a suitable distance apart, I employ a suitable paste roll, brush, or other device whereby a line or streak of paste may be applied to the face of one of the sheets—for instance, the upper face of the sheet or strip from the roll D' or the lower face of the sheet or strip upon the roll D. The kind of device employed for applying the paste at intervals or the strip to which the paste is applied is immaterial, provided the paste is placed upon the strip at such intervals and in such position that both strips will as they are drawn forward be pasted together at the point where the bottom seam of the bag is formed, so that when the compound or double strip passes to the bag-making machine, and is severed and pasted and folded to form the closed end of

the bag, the inside section of the said bag will be pasted along the bottom seam as well as the outside section or portion thereof.

In the drawing I have illustrated a reciprocating roller, *b*, and means for operating it to supply it with paste and to bring it against the upper face of the strip from the roll D'. The roller *b* is carried by arms *c c* upon a rock-shaft, *e*, an arm, *f*, of which is connected to an arm on a shaft, *g*, which latter is reciprocated by a rod, *h*, deriving its movement from any moving portion of the main machine. The paste-pot E contains a paste-roll, F, to which an intermittent rotary motion is imparted, as usual, and the roller *b* is carried to the paste-roll F and in contact therewith over a curved surface, *i*, which causes the paste-roll to turn and distributes the paste evenly thereon, and is also carried on its downward movement into contact with the upper face of the paper passing from the roll D' and held there for a sufficient length of time to deposit the paste in proper position and extent thereon. The strips travel at such a rate and the paste-roll is moved at such intervals that the distance between two adjacent lines of paste will be equal to the length of blank necessary to form the bag.

I have not illustrated the machinery for folding, pasting, and severing the combined strips in the further manufacture of the bags, inasmuch as the same is well known to all bag-manufacturers, and because any kind of apparatus capable of securing such effect may be employed.

No claim is here made to the machine set forth herein, as the same forms the subject-matter of an application filed by me August 6, 1887, Serial No. 246,330. Neither is claim made to the double bag as an article of manufacture having its two sections pasted at the bottom seam, as the same will form the subject of another application to be filed by me.

Without limiting myself to the precise construction and arrangement of parts shown and described, I claim—

The within-described mode of forming double paper bags and sealing the bottom of the inner section, the same consisting in past-

ing both sections together transversely at intervals equal to the lengths of the blanks, and in then forming the double bags with the bottom seam of the bag at the point where the
5 two sections are pasted together, substantially as set forth.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

CARL F. SCHMIDT.

Witnesses:

RUD. BLANK,
PAUL OPITZ.