C. M. GLEN.

CARBON PAPER.

APPLICATION FILED NOV. 16, 1912.

1,085,331.

Patented Jan. 27, 1914.

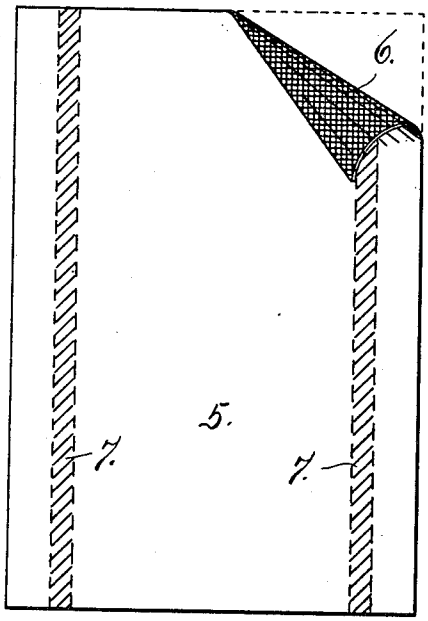


Fig. 1.

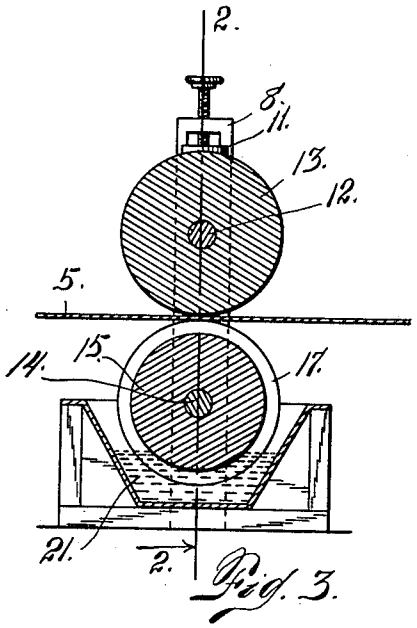


Fig. 3.

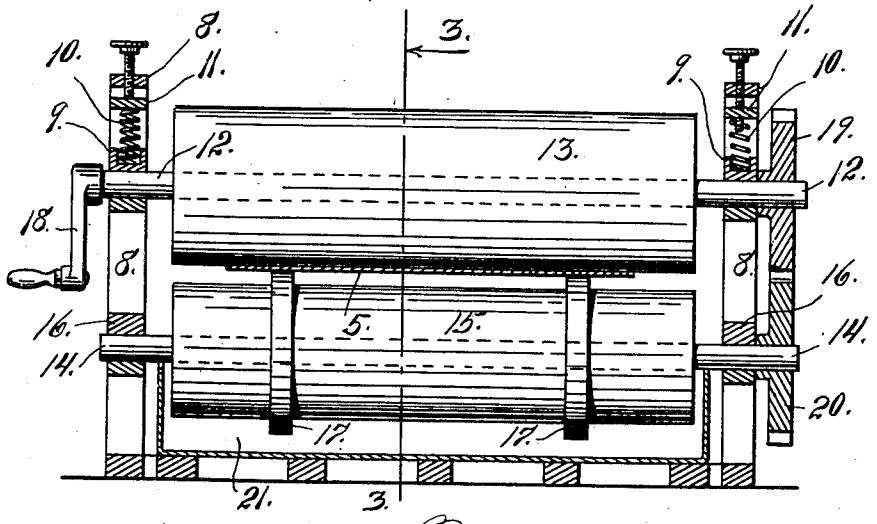


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

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CARBON-PAPER.

1,085,331. Specification of Letters Patent. Patented Jan. 27, 1914.

Application filed November 16, 1912. Serial No. 731,895.

To all whom it may concern:

Be it known that I, CLYDE M. GLEN, a citizen of the United States, residing in the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Carbon-Paper; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to carbon paper for typewriting machines, and consists in providing the reverse side of the carbon paper with a coating of a material of adhesive or gummy qualities.

The principal object of the invention is to provide carbon paper with means to prevent sliding action between the paper to be printed upon and the reverse side of the carbon paper, which, as now made, is smooth. Where a large number of carbon copies are to be made at one time, the slipping effect is multiplied, with the result that the spacing of the lines in the original is not maintained uniformly throughout the copies. The tendency of the papers to move upon each other results from their motion about the cylindrical platen of the typewriter, the circumference of the curve of the outer sheet being considerably greater than that of the sheet nearest the platen.

In order to make my invention clearly understood, I have shown, in the accompanying drawing, certain means for carrying the invention into effect, without, however, intending to limit myself to the particular means which, for the sake of illustration, I have set forth.

In this drawing: Figure 1 is a plan view of the reverse side of a sheet of carbon paper provided with my invention, one corner of the sheet being turned back to expose the carbon side. Fig. 2 is an end view partly in section of an apparatus for applying the adhesive to the reverse side of the paper. Fig. 3 is a section taken upon the line 3—3, Fig. 2.

The same reference numerals refer to like parts in each of the views.

In Fig. 1 I have illustrated in detail a sheet of paper 5, coated upon one side with a preparation of carbon 6 of the ordinary kind. Upon the opposite side are strips 7 of some adhesive or gummy composition. The strips 7 are merely illustrative of one manner of applying the composition, which may be arranged in any desired pattern, or even upon the entire surface of the sheet.

The application of the adhesive compound may be made in several ways, of which I have illustrated only one in the drawing. This particular apparatus will now be described. Suitable uprights 8 have vertically slidable therein bearings 9, against the upper portions of which press springs 10, vertically adjustable abutments 11 being provided for the opposite extremities of the springs. Within these bearings 9 is rotatably mounted a shaft 12 having fixed thereon a roller 13 uniformly circular in cross section. The shaft 14 of a second roller 15 is rotatably mounted in fixed bearings 16, the roller 15 having two bands 17 arranged circumferentially thereon. The upper shaft 12 is provided with a hand-crank 18, and the two shafts 12 and 14 are interconnected by meshing gears 19 and 20. A tank 21 containing a solution of gelatin, beeswax, gum arabic, or other similar substance of a semi-adhesive or gummy nature, is arranged below the roller 15, the latter being adapted to be partly immersed in the solution.

In operation, the carbon paper is inserted, carbon face uppermost, between the two rollers, and the hand-crank 18 turned, whereby the paper is drawn through the rollers, the bands 17 which are covered with the adhesive composition bearing upon the under surface of the paper and applying thereto a coating in strips 7. It is then only necessary to allow the coating to dry sufficiently, when the paper will be in condition to be used.

I claim as my invention:

1. A sheet of carbon paper for transferring impressions to plain paper, said carbon paper being provided upon its reverse side with friction increasing material.

2. A sheet of paper for transferring impressions to plain paper, said first named paper being coated upon one side with a preparation of carbon and provided upon the reverse side with friction increasing material.

3. A sheet of paper for transferring impressions to plain paper, said sheet of paper being coated upon one side with a preparation of carbon and provided upon the reverse side with means for increasing the friction between it and any contiguous surface.

In testimony whereof I affix my signature in presence of two witnesses.

CLYDE M. GLEN.

Witnesses:
EVA L. HALL,
MAY CLEMENTS.