

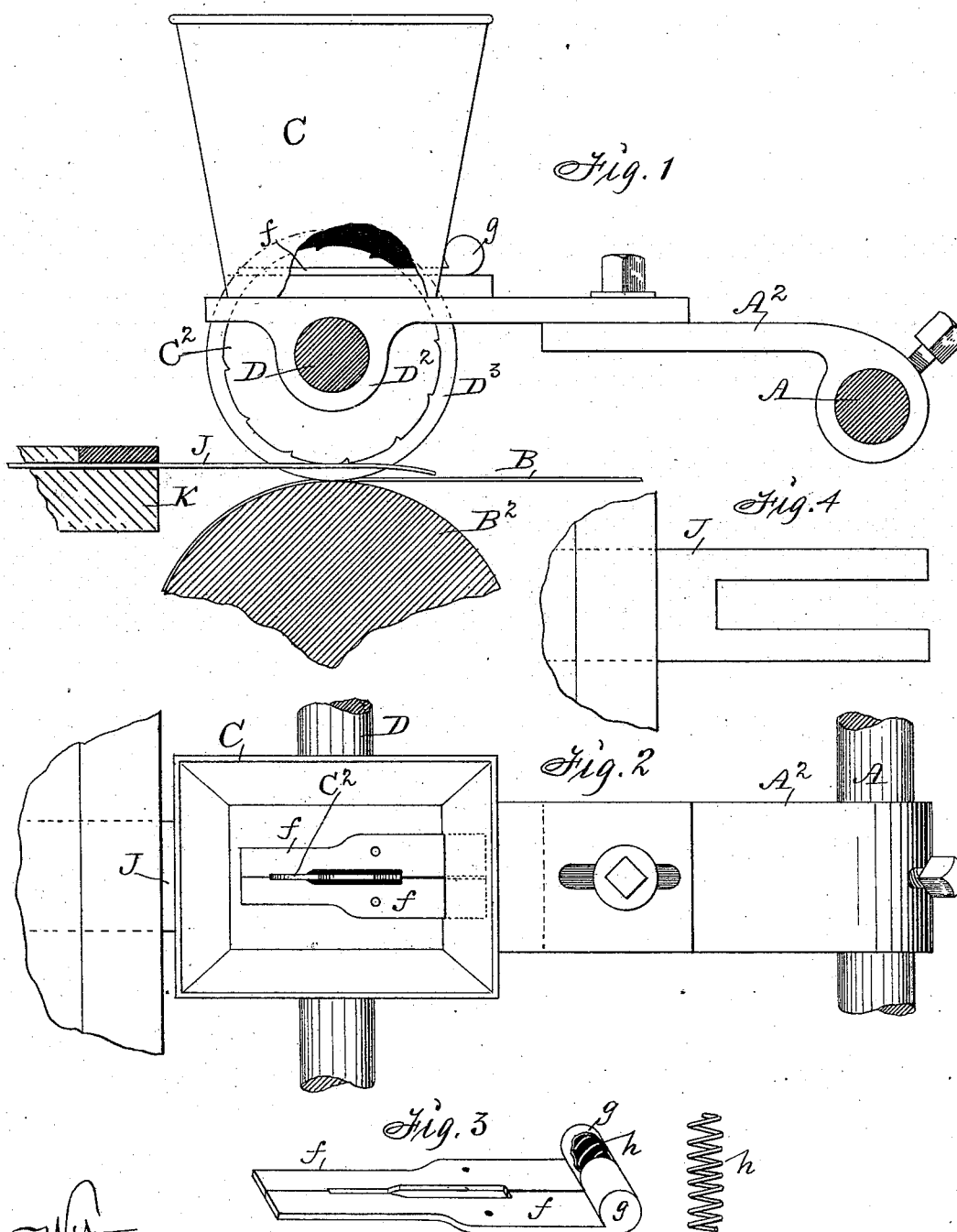
(No Model.)

T. C. DEXTER.

PAPER FOLDING AND PASTING MACHINE.

No. 347,333.

Patented Aug. 17, 1886.



Witnesses:

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UNITED STATES PATENT OFFICE.

TALBOT C. DEXTER, OF DES MOINES, IOWA.

PAPER FOLDING AND PASTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 347,333, dated August 17, 1886.

Application filed January 12, 1885. Serial No. 152,632. (No model.)

To all whom it may concern:

Be it known that I, TALBOT C. DEXTER, a citizen of the United States of America, and a resident of Des Moines, in the county of Polk and State of Iowa, have invented an Improvement in Paper Folding and Pasting Machines, of which the following is a specification.

My invention relates to the manner of taking paste from a cup and applying it to a sheet by means of a wheel.

Heretofore paste-distributing wheels have extended partially through a slot in the bottom of a paste-cup in such a manner that paste adhered to their peripheries within the cup, and as they revolved upon a sheet of paper the paste was transferred from the edge of the wheel to the paper; but paste also adhered to the side faces of the wheels and caused the paper to be daubed and smeared with paste outside of the narrow straight line that was covered by the wheel as the sheet was carried along under the wheel. The carrying-tapes also failed to retain the sheet in close enough contact with the periphery of the paste-wheel to insure an even distribution of paste upon the paper as it passed along under the wheel.

My object is to remedy these defects, and I accomplish the same by the construction and combination of a wheel-scraper and a sheet-supporter with paper folding and pasting mechanism, as hereinafter fully set forth.

Figure 1 of the accompanying drawings is a side view, and Fig. 2 a top view, of my devices combined. Fig. 3 is a perspective view of the wheel-scraper. Fig. 4 is a section of a sheet-supporter.

Together these figures clearly illustrate the construction, operation, and utility of my complete invention.

A represents a rock-shaft attached to the frame of a folding-machine in such a manner that it will extend horizontally over a series of sheet-carrying tapes, B, that are supported by and moved upon a roller, B².

A² is an extensible paste-cup carrier adjustably connected with the shaft A by means of an eye at its rear end and a set-screw in such a manner that it can be extended parallel with the tapes B or its free end raised and lowered relative to the tapes whenever desired.

C is a paste-cup fixed on top of the free end of the carrier A². It has a slot in its bottom, through which the outer portion of a paste-distributing-wheel, C², revolves.

D is the axle upon which the wheel revolves. The ends of the axle are hinged to the rock-shaft A by means of arms, and the axle extends through eyes D², formed on the bifurcated end of the cup-carrier A².

D³ is one of a series of friction-wheels fixed to the revolving axle D, to engage the roller B² and to prevent the wheel C² from pressing too hard upon the sheet of paper passing under it while the wheel is applying a line of paste upon the paper.

ff are scrapers pivoted at their centers to the bottom of the paste-cup C and at the opposite sides of the slot in said bottom. Parts of their contiguous inner edges are cut away, so as to produce an opening for the wheel C² to extend through as required to come in contact with the paste in the cup. One end of this opening is contracted, so that the scrapers will come in contact with the side faces of the wheel to prevent paste from adhering there to when the wheel revolves and deposits paste from its periphery upon the sheet of paper carried along underneath the wheel by the tapes B.

gg are chambers formed on the ends of the pivoted scrapers *f*, to inclose a compressed coil-spring, *h*, in such a manner that the spring will keep the opposite ends of the scrapers closed against the revolving paste-distributing wheel as required, to prevent paste from being carried on the side faces of the wheel while it carries paste in the notched or milled surface of its periphery.

J is a sheet-supporter fixed to a feed-table, K, in such a manner that its bifurcated end, which is clearly shown in Fig. 4, will project under the paste-distributing wheel C², as shown in Fig. 1, to support a sheet as it passes from the table and is advanced upon the carrying-tapes B, as required, to keep the paper in contact with the periphery of the wheel as it revolves and applies paste to the paper in a straight line where it is to be doubled and fastened to other portions of the same sheet.

I claim as my invention—

1. The duplex scraper composed of the plates

ff, having chambers *g* and the spring *h*, in combination with a paste-cup having a slot in its bottom and a paste-distributing wheel extending into said slot, substantially as and for
5 the purposes shown and described.

2. The combination of a paste-cup having a slotted bottom, a paste-distributing wheel extending into a slot, a roller supporting sheet-carrying tapes, and a paper-support extending
10 ing under the paste-distributing wheel, to operate in the manner set forth, for the purposes stated.

3. The shaft *D*, having a fixed paste-distributing wheel, *C*², and a series of friction-rollers, *D*², a roller, *B*², and a series of sheet- 15 carrying tapes, *B*, and a sheet-support, *J*, arranged and combined to operate in the manner set forth, for the purposes specified.

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Witnesses:

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