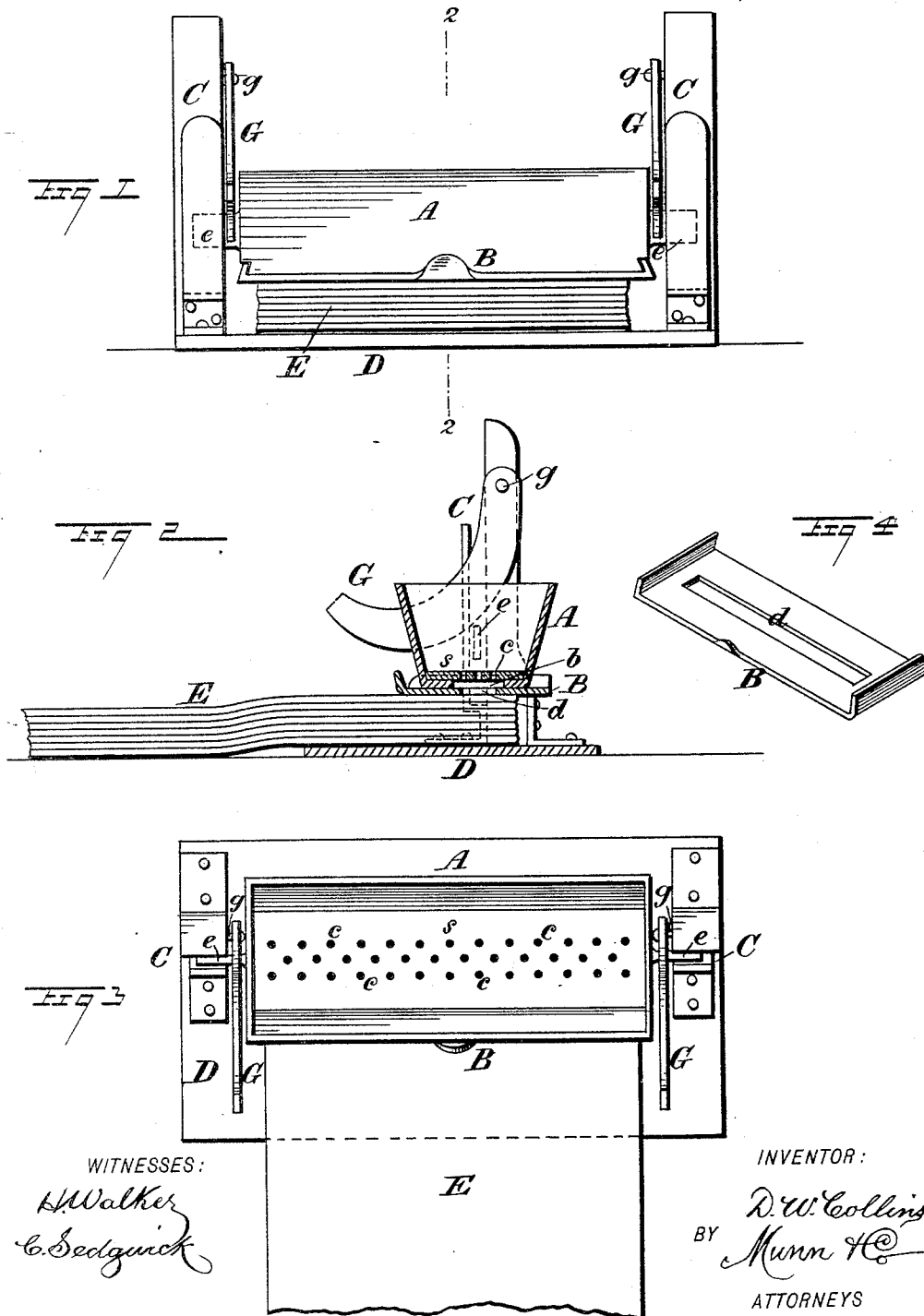


(No Model.)

D. W. COLLINS.
WRAPPER PASTER.

No. 459,269.

Patented Sept. 8, 1891.



UNITED STATES PATENT OFFICE.

DAVID WALLACE COLLINS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
TO HIMSELF AND JOSEPH A. COLLINS, OF SAME PLACE.

WRAPPER-PASTER.

SPECIFICATION forming part of Letters Patent No. 459,269, dated September 8, 1891.

Application filed February 26, 1891. Serial No. 382,853. (No model.)

To all whom it may concern:

Be it known that I, DAVID WALLACE COLLINS, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Wrapper-Pasters, of which the following is a full, clear, and exact description.

This invention, while applicable as a pasting apparatus for other purposes, is more particularly designed to be used for applying the paste to newspaper and other like wrappers, and to aid in packing the papers in wrappers, and it will here be described accordingly.

The invention consists in a novel device or apparatus for automatically supplying the paste and laying it on the part of each wrapper to be pasted, and in certain constructions and combinations of details in such a device, substantially as hereinafter described, and more particularly pointed out in the claims.

By means of my invention much labor is saved and the papers or other printed matter may be put up in wrappers with greater ease, rapidity, and accuracy; also, space is economized and the whole operation is altogether cleanly, there being no scattering or dropping of paste.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a front elevation of the apparatus applied to a pile of newspaper-wrappers. Fig. 2 is a vertical section of the same upon the line 2 2 in Fig. 1. Fig. 3 is a plan view thereof, and Fig. 4 is a view in perspective of a slide used to regulate the size of the paste-discharge opening, or to shut off the flow of paste when required.

A indicates a metal or other suitable pan for holding the paste, and which is of a length or a little more than the length of the width of the wrappers to be pasted. Said pan otherwise may be of any suitable dimensions and is made to taper downward at its sides, the lower margins of which are turned in and a discharge-opening *b* made in the bottom of the pan of the length, or thereabout, of the pan and of a width to furnish a film of paste, or whatever the adhesive material may be, to or in excess of the widest area of wrapper-

margin to be pasted. Within the bottom of the pan is soldered or secured a second bottom *s*, of tin, brass, or other suitable material, having a series of perforations *c* in it over the discharge-opening *b* in the lower bottom of the pan. By this combination of the perforated upper bottom and longitudinally-apertured lower bottom the paste, which may be thickened or thinned to secure a proper flow, is automatically delivered in a thin unbroken or perfect film to the pasting-margin of the wrapper lying underneath it; but to more perfectly regulate the flow of the paste to the wrapper to suit large or small wrappers and to altogether shut off the flow when required—as, for instance, when replacing one pile of wrappers for a fresh pile—I apply to the under side of the pan a hand-slide *B*, which may have its ends turned up to slide in creases or grooves in the ends of the pan, and which has a longitudinal slot or opening *d* in it, preferably of lesser width than the opening *b* in the bottom of the pan. Accordingly as this slide is adjusted the width of the discharge for the paste is increased or diminished, or by adjusting it to wholly close the opening *b* the flow is wholly shut off.

The pan *A*, with its attachments, is hung or supported by projections *e e* on its ends to freely rise and fall within upright slotted standards *C C*, secured at their base by screws or nails to a board *D* of any convenient size. In this way the pan or its attached slide *B* is made to rest upon and to follow down the pile of wrappers *E* as they are consecutively used up one at a time, in packing the papers. The wrappers are introduced in a pile at their closing or pasting marginal portions over the board *D* and underneath the pan, each succeeding pile consisting of any suitable quantity of wrappers. Each wrapper may be separately lifted by the operator moistening his finger upon a dampened sponge and be drawn out from beneath the pan, suitable pressure being applied to hold the remaining wrappers in the pile, and the paper or papers folded up in the wrapper and the latter tabbed or directed in the usual or any suitable manner.

Ordinarily—that is, for light wrappers—the weight of the pan with its attachments and contents will be sufficient to secure the neces-

sary pressure on the upper wrapper; but when thick or heavy wrappers are used, then additional pressure may be applied by means of weights or curved arms G, pivoted, as at g, to the standards C C, and allowed to rest on the end projections *ee* of the pan, and which when not required may be thrown over to the opposite sides or backs of the standards, out of the way of exerting any downward pressure on the pan. Hand force, if necessary, may also be applied to these curved arms or weights to give additional pressure.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a wrapper-paster, a pan adapted to contain the paste or adhesive material within it, having a longitudinally-apertured bottom and an inner bottom provided with a series of perforations over the aperture in the lower bottom, for operation substantially as described.

2. In a wrapper-paster, the combination, with the paste-holding pan having a longitudinally-apertured bottom and an inner bottom provided with a series of perforations over the apertures in the lower bottom, of an adjustable paste-discharge-controlling slide arranged beneath the lower apertured bottom of the pan, essentially as specified.

3. In a wrapper-paster, the combination, with the automatically-lowering pan which holds and automatically supplies the paste to a pile of wrappers beneath, one at a time, and the end standards adapted to guide said pan in its descent, of adjustable arms or weights pivoted to the standards and adapted to throw downward pressure on the pan or to be relieved from exerting pressure thereon as required, essentially as set forth.

DAVID WALLACE COLLINS.

Witnesses:

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