

No. 690,124.

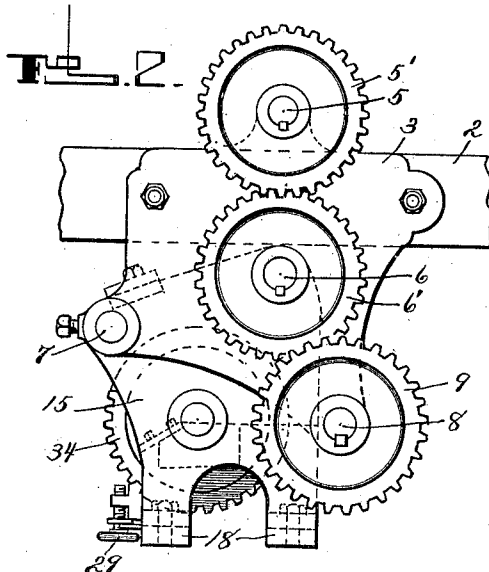
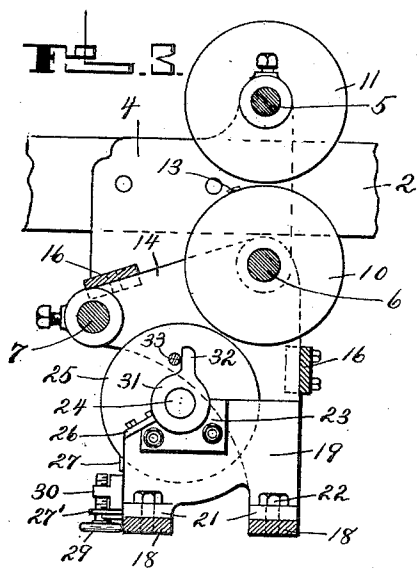
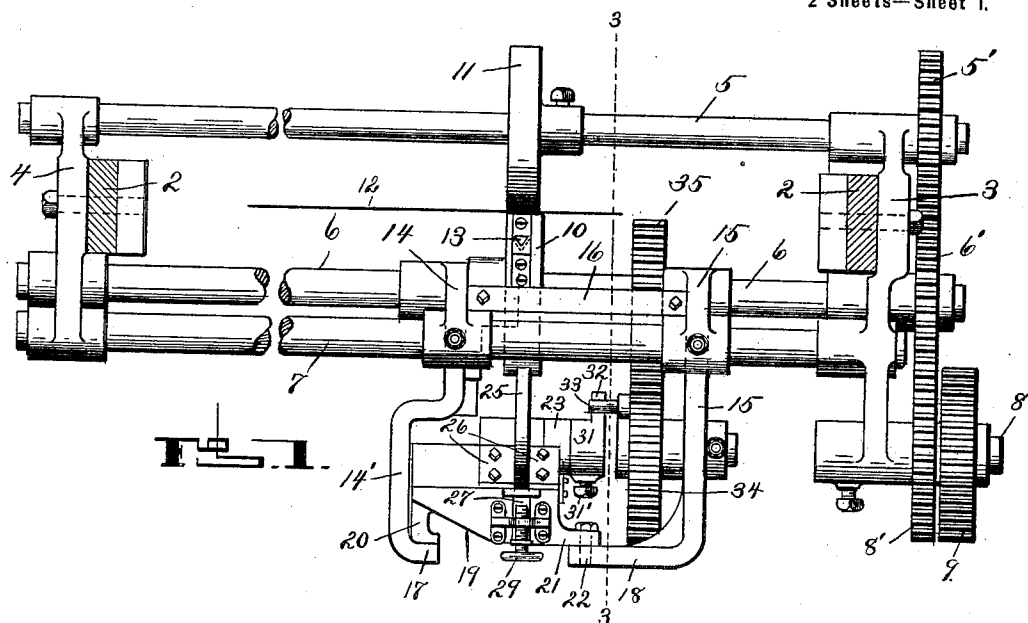
Patented Dec. 31, 1901.

F. C. STOCKHOLM.
PRINTING PRESS ATTACHMENT.

(Application filed July 20, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES.

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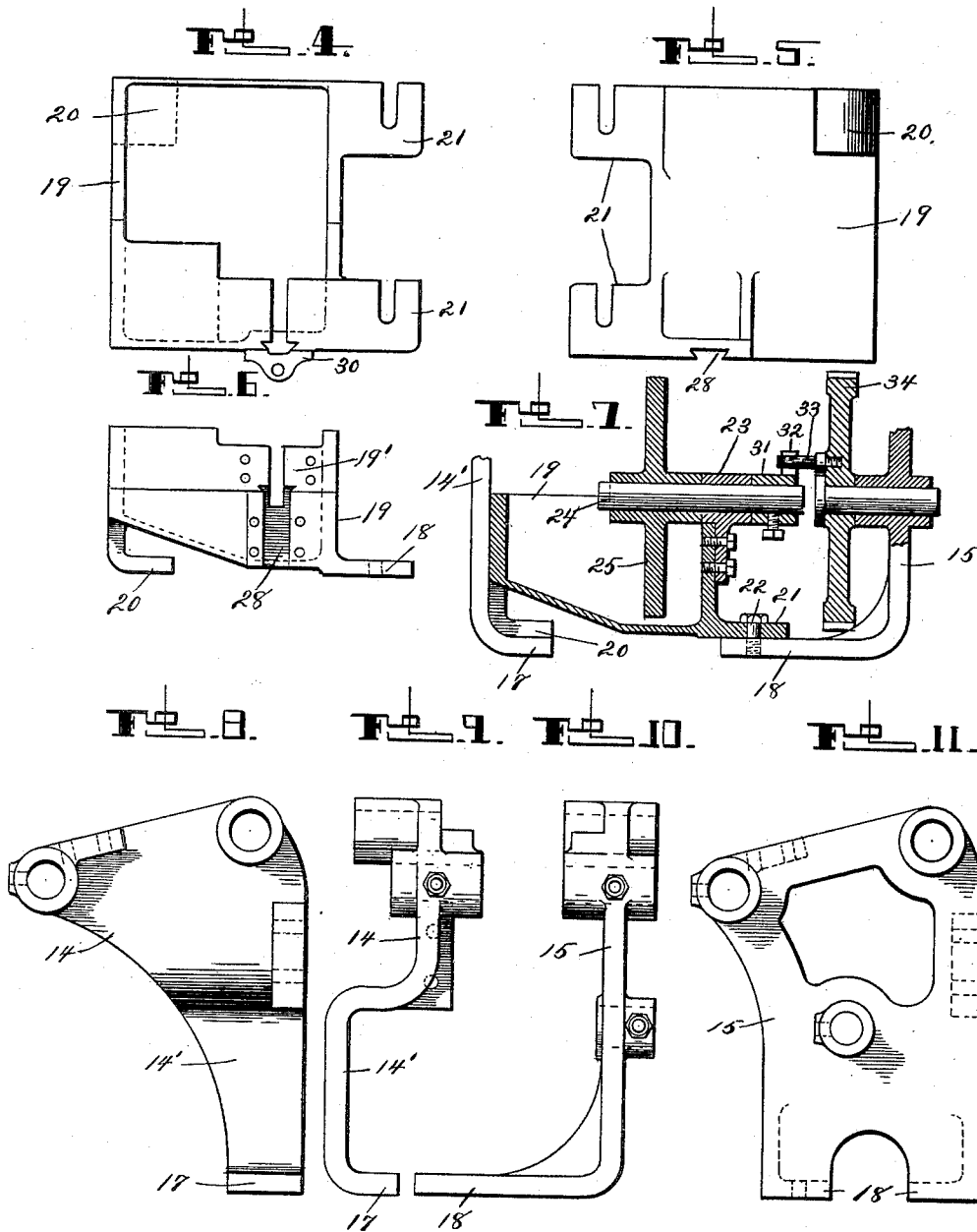
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

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PRINTING-PRESS ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 690,124, dated December 31, 1901.

Application filed July 20, 1901. Serial No. 69,079. (No model.)

To all whom it may concern:

Be it known that I, FRANK C. STOCKHOLM, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Printing-Press Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to mechanism for sealing together adjacent sheets of newspapers, whereby when opened for reading the papers are so marked or mutilated as to be readily detected should their return to the publisher as unsold copies be attempted.

15 The invention has particular reference to certain improvements on the mechanisms shown in the patents granted to L. L. Carson June 13, 1899, No. 626,965, and January 8, 20 1901, Reissue No. 11,881.

The primary object of the present invention is to provide an improved paste-receptacle and paste-delivering mechanism which are readily removable for the cleaning necessary 25 at the end of each run of the press.

A further object is to provide improved means for coupling the removable paste-delivering mechanism with a rotating element of the press, whereby the former is actuated.

30 In this improvement, as in the patents before referred to, the sealing mechanism is mounted on a printing-press and is designed to operate on the webs while passing there-through.

35 The invention consists in the novel features of construction and in the combination and arrangement of parts hereinafter fully described and claimed, and illustrated by the accompanying drawings, wherein—

40 Figure 1 is a front elevation of mechanism embodying my improvements. Fig. 2 is an end view of the same. Fig. 3 is a cross-sectional view on line 3 3 of Fig. 1. Figs. 4, 5, and 6 are detail views of the paste-font. Fig. 45 7 is a vertical longitudinal sectional view of the font and pasting mechanism. Figs. 8, 9, 10, and 11 are detail views of font-supporting members of the frame.

The mechanism may be mounted on a press at any convenient point between the cylinders 50 and folder and in such position as to operate on the paper before the webs thereof have been superposed one upon the other. The mechanism is capable of being shifted transversely of the press, so as to operate on the 55 web at any desired point in the width thereof, whether at one edge or the other or between the edges, according as it may be desired to locate the sealing-points.

Referring more particularly to the present 60 embodiment of my invention, the only portions of the press which I have illustrated are the two opposite side bars 2 of the press-frame, to which are secured the opposite frame portions 3 and 4, carrying my improved mechanism. Traversing the press and journaled 65 in frames 3 and 4 are the parallel shafts 5 and 6 and adjacent the same the parallel supporting-bar 7. Shafts 5 and 6 are connected at one end by gears 5' 6', and meshing with gear 70 6' is gear 8' on short shaft 8. This shaft is journaled in frame 3 and carries gear 9, which meshes with a gear or pinion (not shown) carried by a rotating member of the press, whereby rotary motion is imparted to shafts 5 and 6. 75

A paste-applying roll 10 is secured to and longitudinally adjustable on shaft 6 and co-operates with a similarly-adjustable rubber-bound roll 11 on shaft 5. The peripheries of rolls 10 and 11 are sufficiently separated to 80 pass web 12, upon which they operate in applying the seal, as will be understood. Roll 10 is provided with a peripheral projection 13 for applying paste to the under side of web 12 at each revolution of said roll. The means 85 for supplying paste to projection 13 will be presently explained.

Depending from and supported by shaft 6 and bar 7 are the frame members 14 and 15, the same being formed at their upper ends 90 with sockets to embrace the shaft and bar and be adjustable thereon, as shown. Said frame members are rigidly united by bars 16. Frame member 14 is outwardly bulged at 14' and at its lower extremity turned inward, 95 forming rest or support 17. The lower ex-

tremity of frame member 15 is formed with two lateral extensions 18, disposed toward support 17 and preferably in the plane thereof.

Removably positioned between frame members 14 and 15 is the paste font or receptacle 19, having on its under side the depending foot 20, which rests on support 17, and the slotted bottom projections 21, which bear on the lateral frame extensions 18. Said frame extensions are provided with vertical clamping-bolts 22, which are embraced by and secure the slotted font projections 21. With the latter slotted, after the clamping-bolt nuts are slackened the font may be readily slipped laterally from between frame members 14 and 15 and entirely removed from the press.

Secured to the side of font 19 is bearing 23 of short shaft 24, and secured on this shaft within the font is the paste-delivering disk 25, which is in the plane of roll 10 and applies paste to roll projection 13. The depending portion of the disk rotates in the liquid paste contained in the font, and excess paste is scraped from the side faces thereof by the removable scraper-plates 26, secured to the inclined top portion 19' of the font. For removing excess paste from the periphery of the disk a scraper-slide 27 is provided, which is vertically adjustable in way 28 on the front of font 19 by means of adjusting-screw 29, the screw working in a bearing 30 and engaging a lateral projection 27' on the slide, as shown. The amount of paste carried upward by the delivering-disk is thus accurately regulated and flooding prevented. The scraper-plates 26 remove virtually all the paste from the side faces of the disk, and the disk-periphery scraper 27 may be adjusted in accordance with the consistency of the paste.

On the outer end of short shaft 24 is sleeve or collar 31, which is adjustably secured thereto by set-screw 31', and projecting from this collar is lug 32. This lug is engaged by pin 33, projecting laterally from gear-wheel 34, journaled in frame portion 15 in line with shaft 24 and meshing with gear-wheel 35 on shaft 6. Thus the paste-delivering disk is caused to rotate with the paste-applying roll 10, and at the same time the disk and shaft 24 may be readily removed, with the font 19, by simply loosening set-screw 31', and thereby disengaging lug 32 from its actuating-pin 33. After the font and disk have been removed and cleaned, which is necessary after each run of the press, the font is replaced and secured and sleeve 31 turned and set, with lug 32 engaging pin 33, ready for the next run.

It is essential that shafts 5 and 6 be so geared as to drive the peripheries of rolls 10 and 11, which are of corresponding diameter, at exactly the same speed as that at which the web moves through the press, whereby the web will not be torn or mutilated by contact there-

with. As it is necessary to seal each paper at one point only, the peripheral length of roll 10 is proportional to the length of the sheets into which the paper is subsequently cut, whereby for the length of each sheet the web is operated upon once only, and all of the subsequently cut sheets are operated upon at corresponding points, preferably adjacent the upper right-hand corner thereof. However, the peripheral length of roll 10 may be so proportioned to the length of each sheet that the latter will be operated upon at two or more points to provide each paper with several sealing-points. With the mechanism adjustable transversely of the press it will be understood that the sealing-points may be positioned wherever desired between the longitudinal edges of the web. After web 12 passes from the sealing mechanism it is superposed upon and adheres to the other web, (not shown,) forming the second sheets of the papers.

As the present invention relates more especially to the removable mounting for the paste-delivering disk and the paste-font and to the means for actuating the disk, the claims are correspondingly restricted, though it will be understood that the structural details may be varied in numerous particulars and that the mechanism to which paste is applied may be changed or modified without departing from the scope of the invention.

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

1. Improved paste-delivering mechanism comprising a paste-font, a rotatable paste-delivering device, a rotatable actuating member axially alining with the paste-delivering device, and a radially-adjustable connection between the actuating member and delivering device.

2. Improved paste-delivering mechanism, comprising a paste-font, a rotatable paste-delivering device, a collar adjustably uniting with the latter, a rotatable actuating member adjacent the delivering device, and an interlocking connection between said actuating member and the adjustable collar.

3. Improved paste-delivering mechanism for printing-presses, comprising a font, a paste-delivering device rotatable within the font, a shaft journaled in the font and to which said device is secured, an adjustable collar on said shaft provided with a projecting lug, a rotating member of the press axially alining with said shaft, and a pin projecting from said press member and engaging the said collar-lug, substantially as shown and described.

4. Improved paste-delivering mechanism for printing-presses, comprising a frame, a paste-font removably secured thereto, a paste-delivering device carried by and operative within the font, a rotating member of the press journaled in the frame, and a detach-

able operative connection between said press member and the paste-delivering device, substantially as shown and described.

5 5. Improved paste-delivering mechanism, comprising frame members having lateral supporting projections on their adjacent sides, a paste-font having foot projections adapted to rest on said projections of the frame, said foot projections being slotted to

embrace clamping-bolts, and a paste-delivering device operative in the font, substantially as shown and described.

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

FRANK C. STOCKHOLM.

Witnesses:

ALBERT FRIEDSAM,
WILLIAM C. STOEVER.