

J. H. CUNNINGHAM.
 PRINTING PRESS ATTACHMENT.
 APPLICATION FILED JULY 16, 1920.

1,381,806.

Patented June 14, 1921.

Fig. 1.

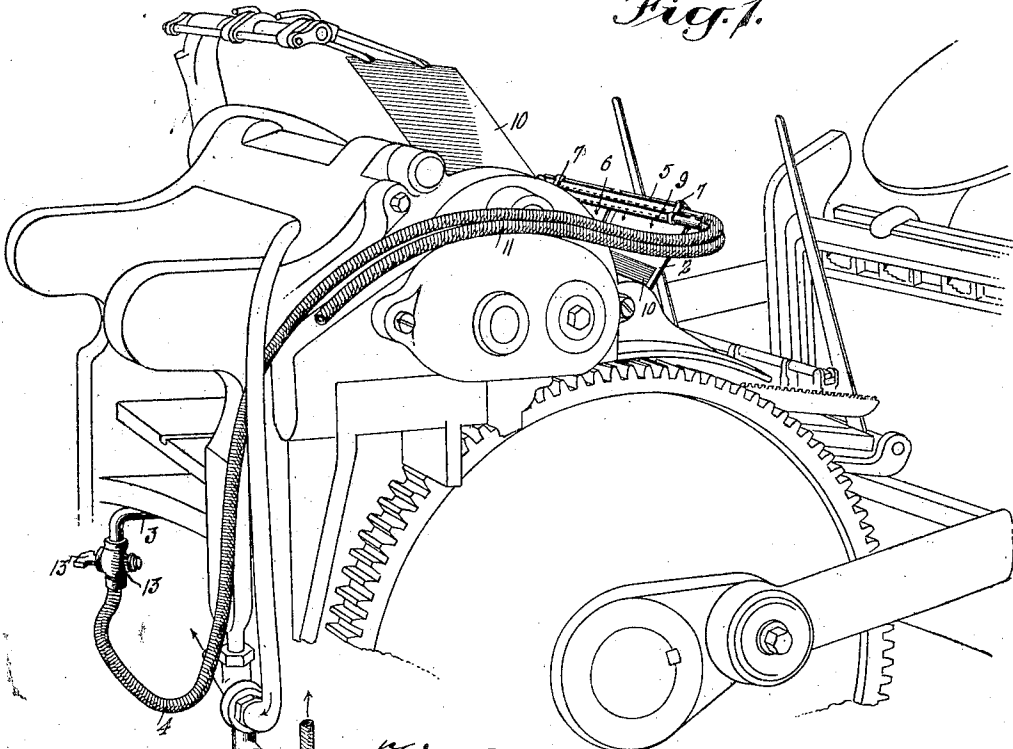


Fig. 2.

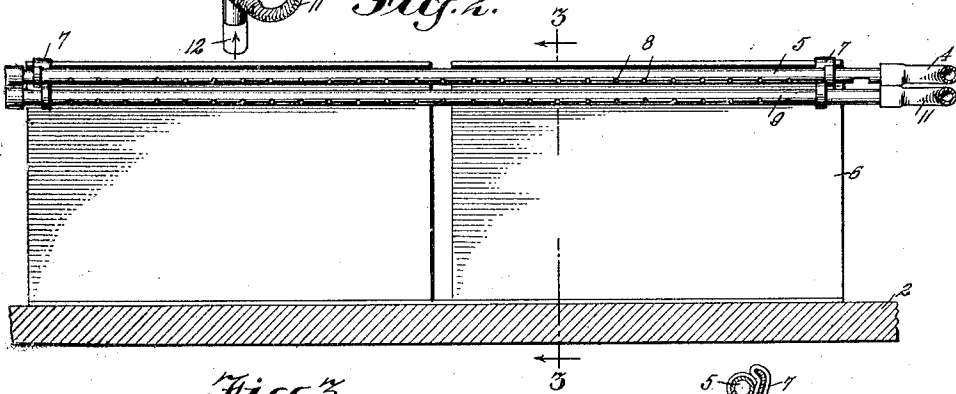
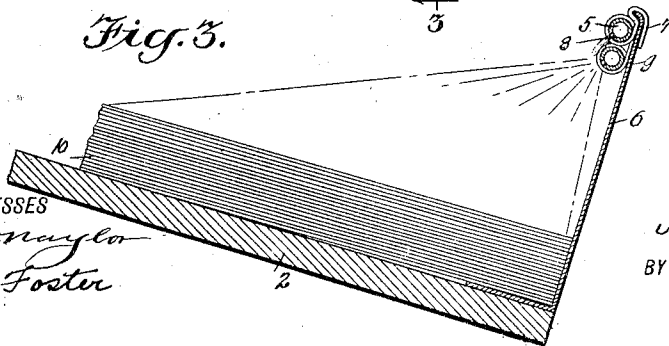


Fig. 3.



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PRINTING-PRESS ATTACHMENT.

1,381,806.

Specification of Letters Patent. Patented June 14, 1921.

Application filed July 16, 1920. Serial No. 396,630.

To all whom it may concern:

Be it known that I, JOHN HENRY CUNNINGHAM, a citizen of the United States, and a resident of San Francisco, in the county of San Francisco and State of California, have invented a new and Improved Printing-Press Attachment, of which the following is a full, clear, and exact description.

10 This invention relates to improvements in printing press attachments, an object of the invention being to provide an improved means for quickly drying printed sheets as they are delivered from the press.

15 A further object is to provide a new device for introducing a current of heated air to the sheets to dry the ink as the sheets come from the press and to utilize the air pump which is ordinarily employed to operate the feeder for furnishing the current of air required.

20 A further object is to provide an attachment which is primarily designed for use with the machine known to the trade as the Miller platen press feeder, but which may be utilized to advantage with other types of feeders.

25 With these and other objects in view the invention consists in certain novel features of construction and combinations and arrangement of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawing:

35 Figure 1 is a fragmentary perspective view of a feeder with my improved drying device attached.

Fig. 2 is a view in elevation showing the drying device in position on the jogger box.

40 Fig. 3 is a view in section on the line 3—3 of Fig. 2.

Referring in detail to the drawings, 1 represents a well known type of feeder and 2 the jogger box of the feeder into which 45 the printed sheets 10 are delivered with the ink still wet on the sheets. 3 represents a gas supply pipe located under the feeder. A flexible gas pipe 4 connects the gas supply pipe 3 to a burner tube 5, which is secured to the back 6 of the jogger box 2, by means of brackets or hangers 7, preferably of strong metal as shown clearly in Fig. 3. A pipe coupling 13 is used to connect the pipes 3 and 4, and a cock 13' located in the 55 pipe coupling controls the flow of gas to the burner tube 5.

The burner tube is provided with the usual perforations or burner orifices 8. The brackets 7 also support an air tube 9 located directly under the burner tube 5 and 60 having perforations located along its underside adapted to direct a current of air from the tube 9 on to the printed sheets 10, as they are delivered into the jogger box.

The air tube 9 is connected by a flexible 65 pipe 11 to the air line 12 which leads to the air pump commonly employed to operate the feeder. The air pump is not illustrated. The slots or perforations 8 are located on the under face of the burner tube 5 so that 70 the current of air expelled from the air tube 9 will draw the jets of flame from the burner tube downwardly and direct the heat of the burner on to the printed sheets 10 as they are delivered into the jogger box. 75

While I have illustrated my invention as applied to a particular type of feeder it is obvious that a similar drying apparatus could be employed with various types of feeders now on the market, and it is also 80 apparent that many slight changes and alterations might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth and 85 consider myself at liberty to make such slight changes and alterations as may fairly fall within the spirit and scope of the appended claims.

Having thus described my invention, I 90 claim as new and desire to secure by Letters Patent:

1. An attachment for printing presses comprising a burner tube, an air discharging tube located under the burner tube and 95 directing the heat from the burner tube downwardly.

2. The combination with a receptacle adapted to receive printed sheets, of a burner tube, an air discharging tube located under 100 the burner tube and adapted to direct the heat from the burner tube onto the printing sheets.

3. An attachment for printing presses comprising a burner tube, a flexible pipe 105 connecting the burner tube to a gas supply pipe, an air discharging tube located under the burner tube and connected to the air line of a printing press, and means for directing a continuous current of heated air 110 downwardly from said air tube.

4. The combination with a printing press,

a jogger box, and a delivering mechanism adapted to deliver printed sheets onto the jogger box, of a burner tube carried by the jogger box, an air discharge tube located
5 under the burner tube and adapted to direct the heat from the burner tube onto the printed sheets.

5. The combination with a printing press and air pump, an air line connected with the
10 pump, and a jogger box, of a pair of brackets on the jogger box, a burner tube carried by the brackets and connected with a gas supply pipe, an air discharging tube carried by the brackets and located under the burner
15 tube, said air discharging tube connected to said air line, whereby the operation of

the air pump causes a continuous current of heated air to be directed outwardly into the jogger box.

6. An attachment for printing presses 20 comprising a pair of tubes located one above the other, both of said tubes having downwardly discharging outlet orifices, the upper of said tubes constituting a burner and the lower of said tubes constituting an air dis- 25 charge pipe.

7. An attachment for printing presses, comprising a burner tube, and an air discharging tube directing the heat from the burner tube.

JOHN HENRY CUNNINGHAM.