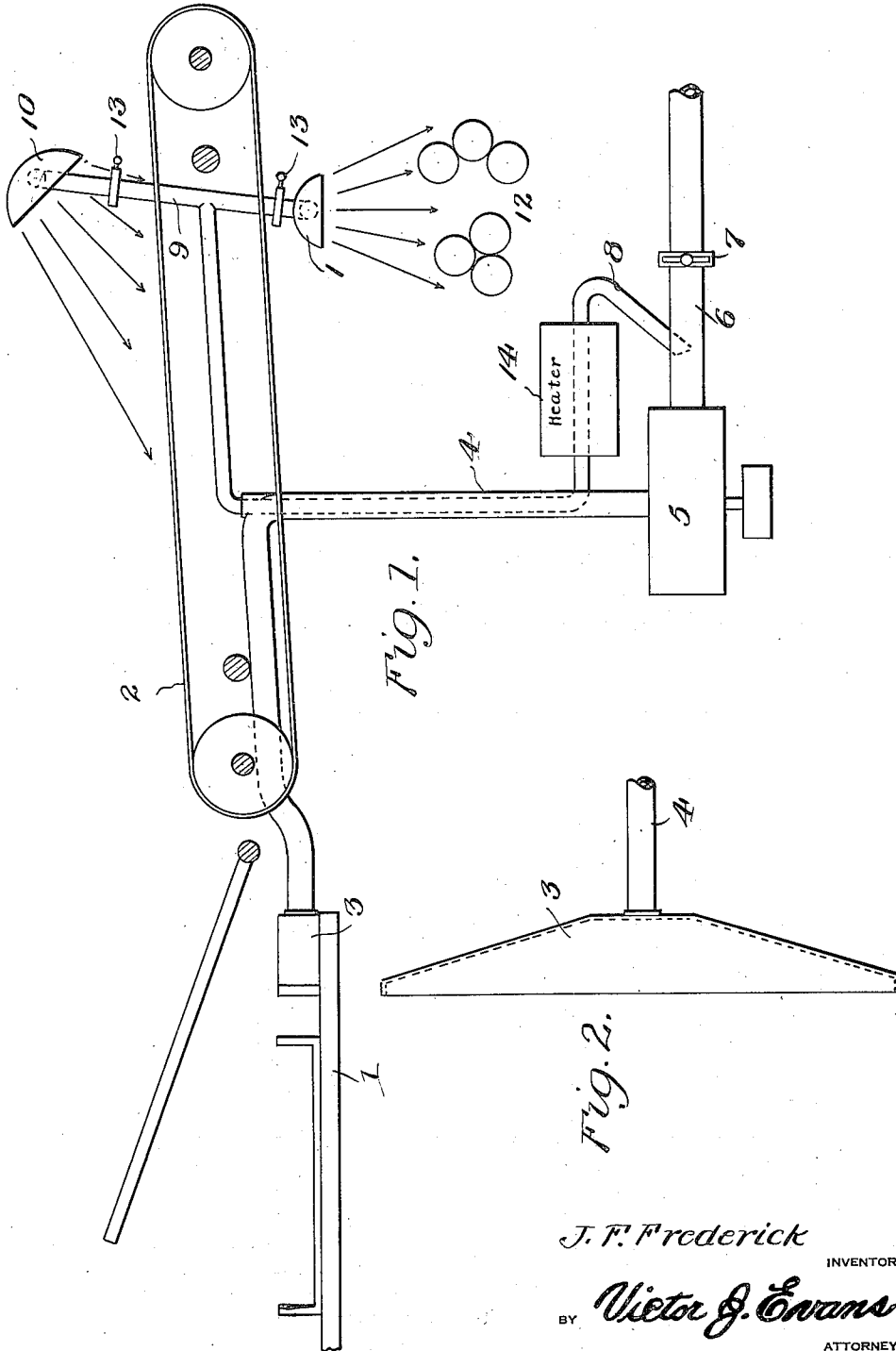


J. F. FREDERICK.
ATTACHMENT FOR PRINTING PRESSES.
APPLICATION FILED AUG. 13, 1920.

1,414,872.

Patented May 2, 1922.



J. F. Frederick
INVENTOR
BY Victor G. Evans
ATTORNEY

UNITED STATES PATENT OFFICE.

JACOB FRANKLIN FREDERICK, OF CHICAGO, ILLINOIS.

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1,414,872.

Specification of Letters Patent.

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Application filed August 13, 1920. Serial No. 403,259.

To all whom it may concern:

Be it known that I, JACOB F. FREDERICK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Attachments for Printing Presses, of which the following is a specification.

This invention relates to an attachment for printing press and more particularly to an improvement over my co-pending application for patent Serial No. 371,073, filed April 3, 1920, and has for its primary object the construction and arrangement of parts so that air will be discharged downwardly upon the traveling sheets and air simultaneously drawn from the jogger board and discharged upon the ink rolls.

An object of the invention is the arrangement of a heater whereby air discharged upon the traveling sheets and upon the rolls may be heated so that the ink upon the traveling sheets may be immediately dried and the rolls kept at the proper temperature to produce the best results.

A feature of my invention is the location of a suitable fan directing air from the jogger board and discharging the entire quantity of the air or a portion thereof upon the traveling sheets and the rolls and subjecting this discharging air, when required, to a heating action.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawing wherein:

Fig. 1 is a diagrammatic view of the invention shown in its relation to the portions of a printing press.

Fig. 2 is a plan view of one form of collector that may be used with my invention.

Again referring to the drawing which illustrates in a diagrammatic manner one construction of my invention, the numeral 1 designates a jogger board and the numeral 2 the traveling tapes which do not form a portion of my invention but are illustrated for the purpose of showing the relation of my attachment to the printing press. The numeral 3 designates the collector arranged upon the jogger board so as to direct air

therefrom and thereby facilitate the positioning of the printed sheets upon the board. To create a suction action this collector 3 is connected by the inlet conduit 4 with a fan 5 that may be located in any convenient position and driven in any suitable manner. This fan communicates with the exhaust conduit 6 which may convey all or a portion of the air to a remote point. This conduit 6 is provided with any suitable form of valve which may be a gate valve 7 so as to control the flow of air through the distributing conduit 8. For the purpose of a more compact arrangement I have shown a distributing conduit passing, for a portion of its length, through the conduit 4 and then branching at the point 9 to communicate with the upper nozzle 10 and the lower nozzle 11. Each nozzle is of a construction to discharge air in a plurality of directions so that the nozzle 10 is capable of exerting air pressure upon the top of the traveling sheets and thereby properly hold the same associated with the traveling tapes. The nozzle 11 is similar in construction so as to properly discharge air currents on to the ink rolls 12. This discharging effect of air is controlled by suitable located gate valves 13.

In a diagrammatic manner I have illustrated a heater 14 which may be electrically heated, steam heated, or any other form of heater. This heater is provided for the purpose of heating the air passing through the distributing conduit so as to facilitate the drying of the ink in winter and keeping the rolls 12 at the proper temperature.

It is, of course, to be understood that when the temperature of the room is above a predetermined degree cool air will be discharged from the nozzle 11 to lower the temperature of the rolls.

From the foregoing description taken in connection with the accompanying drawing it will be apparent that I provide an attachment that will discharge air in the required direction to accomplish the best results and besides the temperature of this discharged air may be regulated to increase the efficiency of the attachment.

It is, of course, to be understood that the invention may be constructed in various other manners and the parts associated in

different relations and, therefore, I do not desire to be limited in any manner except as set forth in the claims hereunto appended.

Having thus described my invention what I claim is:

1. An attachment for printing press embodying a jogger-board and ink rolls comprising a suction fan for directing air from the jogger board, an upper nozzle for discharging air currents upon the traveling sheets, a lower nozzle for discharging air upon the ink rolls, and a conduit receiving air from said fan.

2. An attachment for printing press embodying a jogger-board and press rolls comprising an upper nozzle for directing air currents on to the traveling sheets, a lower nozzle for directing air currents upon the ink rolls, a suction device on the jogger board, and means establishing communication between the device and nozzles whereby air is drawn from said device and discharged through the nozzles.

3. An attachment for printing press embodying a jogger-board and ink rolls comprising an upper nozzle for directing air currents on to the traveling sheets, a lower nozzle for directing air currents upon the ink rolls, a suction device on the jogger board, and means establishing communication between the device and nozzles whereby air is drawn from said device and discharged through the nozzles, and a heater for heating the air traveling to said nozzles.

4. An attachment for printing press embodying a jogger-board and ink rolls comprising an upper nozzle for directing air currents on to the traveling sheets, a lower nozzle for directing air currents upon the ink rolls, a suction device on the jogger board, and means establishing communication between the device and nozzles whereby air is drawn from said device and discharged through the nozzles, and a heater for heating the air traveling to said nozzles, and suitably located valves for controlling the flow of said heated air to said nozzles.

5. An attachment for printing press embodying a jogger-board and ink rolls comprising an upper nozzle for discharging air upon the traveling sheets, a lower nozzle for

discharging air upon the ink rolls, and means for passing heated air to either the upper or lower nozzle or to both simultaneously.

6. An attachment for printing press embodying a jogger-board and ink rolls comprising a nozzle for forcing air on to the traveling sheets, a nozzle for forcing air onto the ink rolls, and means for passing air under pressure, to the nozzles and controlling the temperature thereof.

7. In combination a fan, nozzles communicating therewith for discharging air upon the traveling sheets and upon the ink rolls, and a heater for heating said discharged air under predetermined conditions.

8. In combination with the traveling tapes, jogger board, and ink rolls of a printing press an air collector on the jogger board, a nozzle above the traveling tapes, a nozzle above the ink rolls, and means for directing air from said collector and discharging same through said nozzles.

9. In combination with the traveling tapes, jogger board, and ink rolls of a printing press an air collector on the jogger board, a nozzle above the traveling tapes, a nozzle above the ink rolls, and means for directing air from said collector and discharging same through said nozzles, and means for controlling the temperature of air passing through said nozzles.

10. An attachment for printing presses embodying a jogger-board and ink rolls comprising power operated means for controlling the travel of air currents adjacent the jogger board, and means associated therewith for discharging air currents upon the travelling sheets and upon the ink rolls.

11. An attachment for printing presses embodying a jogger-board and ink rolls comprising power operated means for controlling the travel of air currents adjacent the joggerboard, means associated therewith for discharging air currents upon the travelling sheets and upon the ink rolls, and means for controlling the temperature of said air currents discharged by said second means.

In testimony whereof I affix my signature,
JACOB FRANKLIN FREDERICK.

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