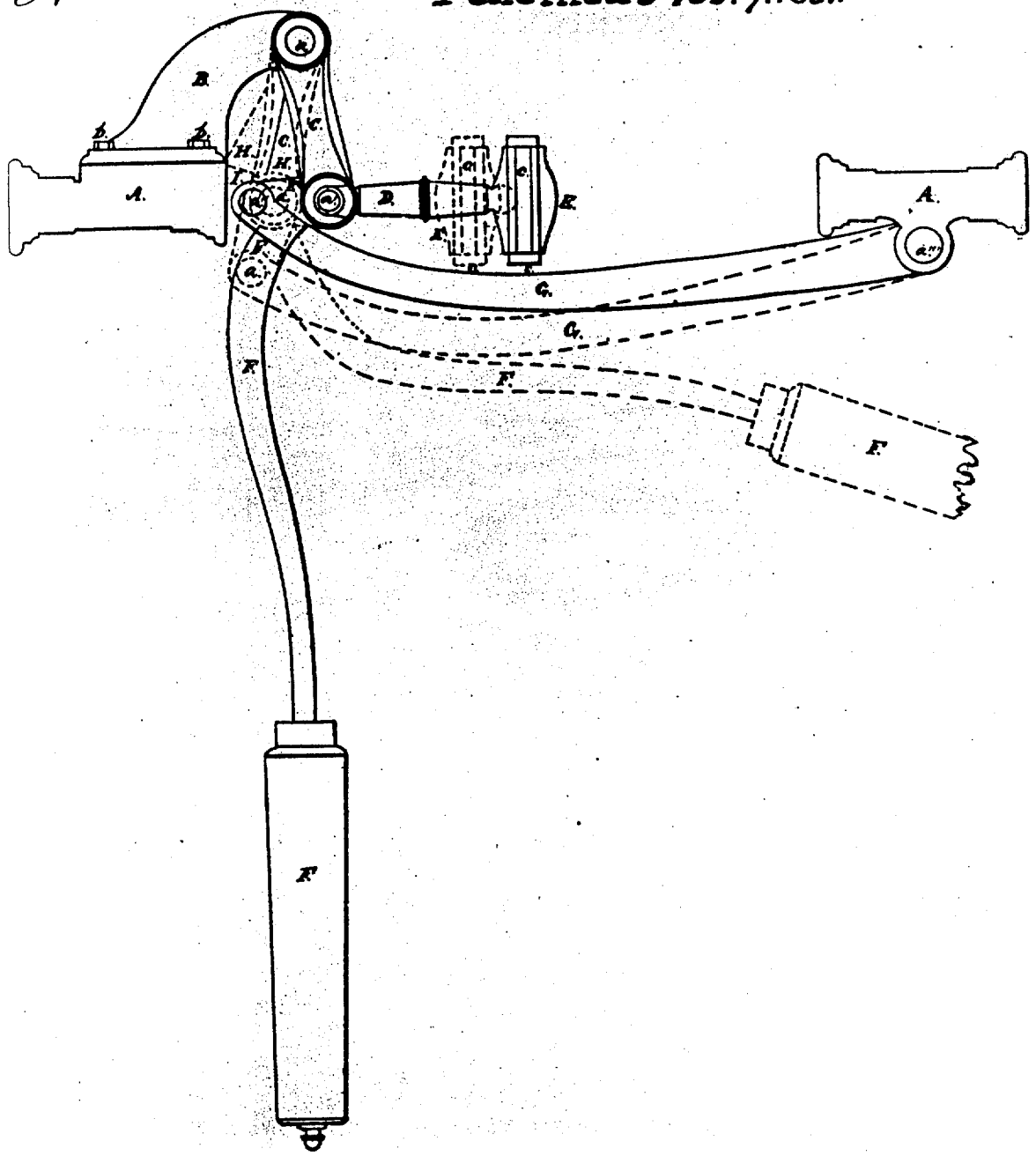
6828X

O. Tufts. Sheet 1. 2 Sheets.

Hand Printing Press.

No.

Patented Nov. 7. 1831.



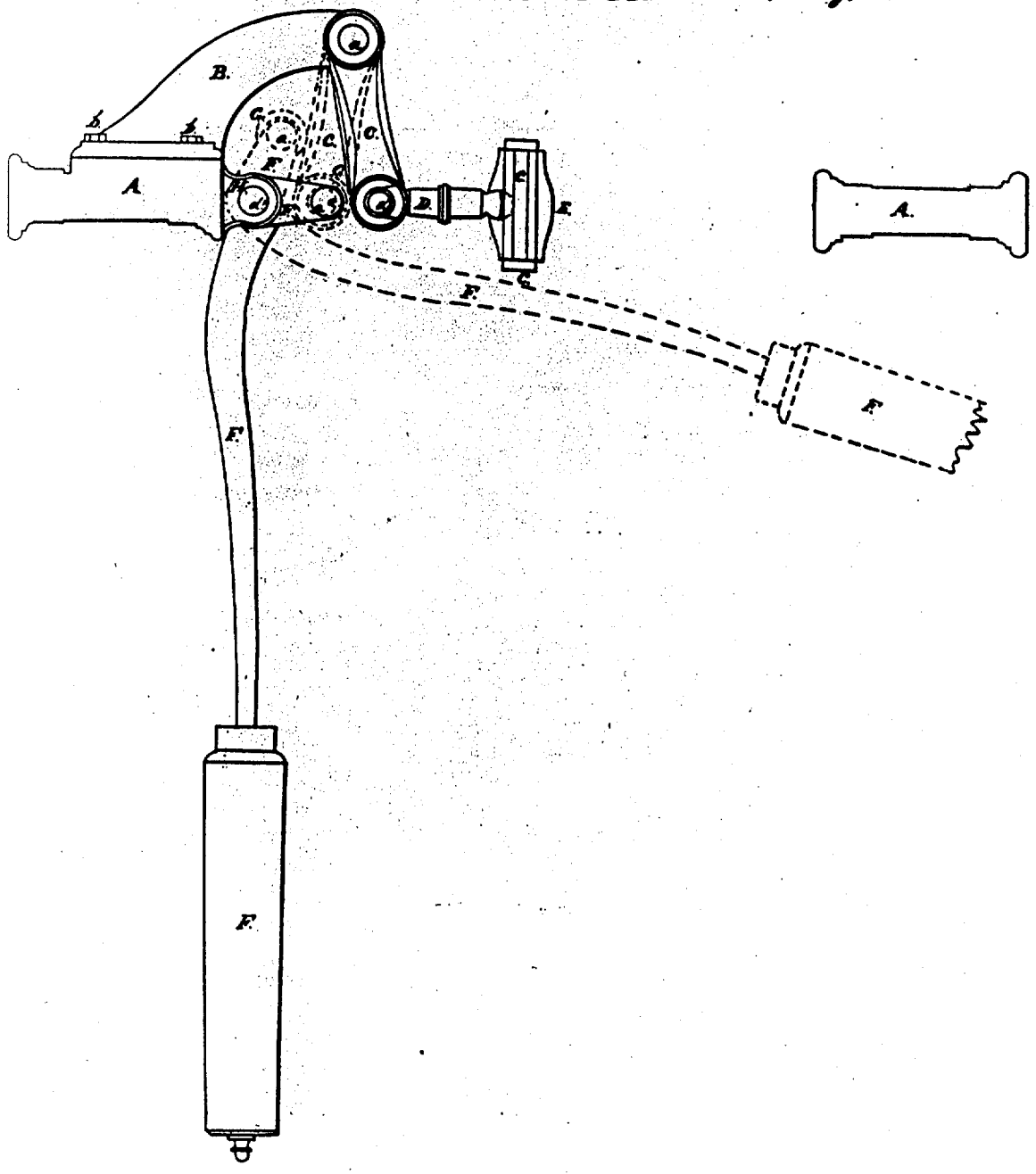
6828X

O. Tufts. Sheet 2. 2 Sheets.

Hand Printing Press.

No 11

Patented Nov. 7 1831.



Otis Tufts

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Otis Tufts himself of his improvement in the manner of straightening the toggle joints in the hand printing press. To all persons to whom these presents shall come. Otis Tufts of Boston in the County of Suffolk and State of Massachusetts Mariner sendeth greeting. Be it known that I the said Otis Tufts have invented constructed made and applied to use new and useful improvements in the manner of straightening the toggle joints in the hand printing press which improvements are described in the following words and annexed drawings which taken together form my specification. First I attach to the back of the arm of the press by screws or otherwise any arm B of the form represented in the drawing or it may be made in any other convenient shape as the fancy or taste of the workman may direct. To this I connect a link C which turns on a pin or bolt a passing through the link and end of the arm B. To the other extremity of this link I place one end of a bent lever or handle E which swivels or turns to the right or left on a pin passing through it and the link as shown at a, At a point I in this lever or bar G of iron or other metal I make or split open so as to admit the bar B to pass through it & is connected by a similar circular pin or bolt to them, as above described. The opposite extremity of this bar moving on a pin a''' between two ears or projections on either side of the back of the press towards the operator. Into the perforation one end being cut out in a semicircular form and resting against the bolt or pin a' the other having a ball screwed on it to fit in a dovetail in the bar

1211.

Linen toggle D. When the lever is pulled by the pressman, the end of the bar G is caused to move forward the arch and serves as a moving fulcrum for the lever. The end of the lever to which the pitman is attached being kept in a curve differing but very little from a right line during its motion by its connection with the link. The pitman is driven perpendicularly in nearly a straight direction and throughout the pull each without much variation perpendicular to the toggles Secondly the arm B. the link C. the pitman D and the toggle D. plan nearly remaining in precisely the same position with respect to each other as aforementioned. I place a part E of the lever between the cam or projections H on the inside of the arch, and secure it by a pin or bolt a. on which it is allowed to turn. In the end of the lever I fix a roller G. which acts on a plane or curved surface formed on the side of the link. By pulling the lever the friction roller pushes forward the link which communicates the motion to the pitman which resting against the toggles thus straightens the joints. What I claim as my invention and what I consider as new in the application of the bar G, to the other parts of the combination producing the effect of straightening the toggle joints in the hand printing press. Also I claim the fixing of a roller on the end of the lever to act against a plane or curved surface on the side of a link C, moving in a center a, for the purposes aforesaid. The accompanying drawings represent the positions of the different parts when the press is not in use and are designated by red lines which correspond with those in black. In testimony that the above is a true specification of my invention I have hereunto affixed my hand and seal this 5th day of July in the year of our Lord eighteen hundred and forty one

Witnesses Robert H. Eddy [seal]
Chas. Tufts
Wm. E. Pittard