No Printed Specification Available

6634X

Payne & Rundell,

Cotton Press,

Patented July 20, 1831.

Fig. 2.

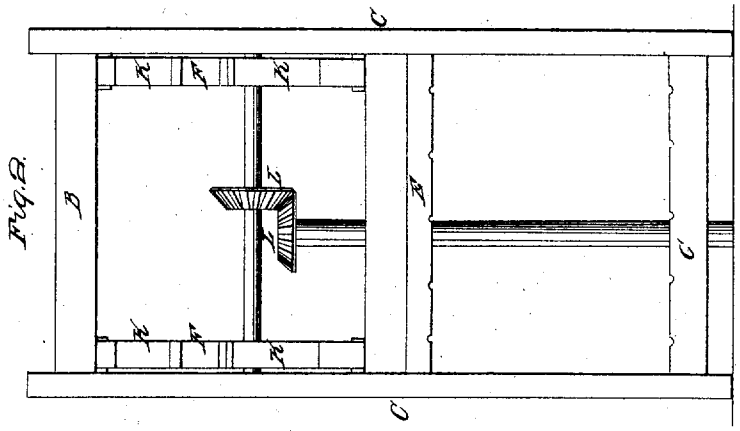
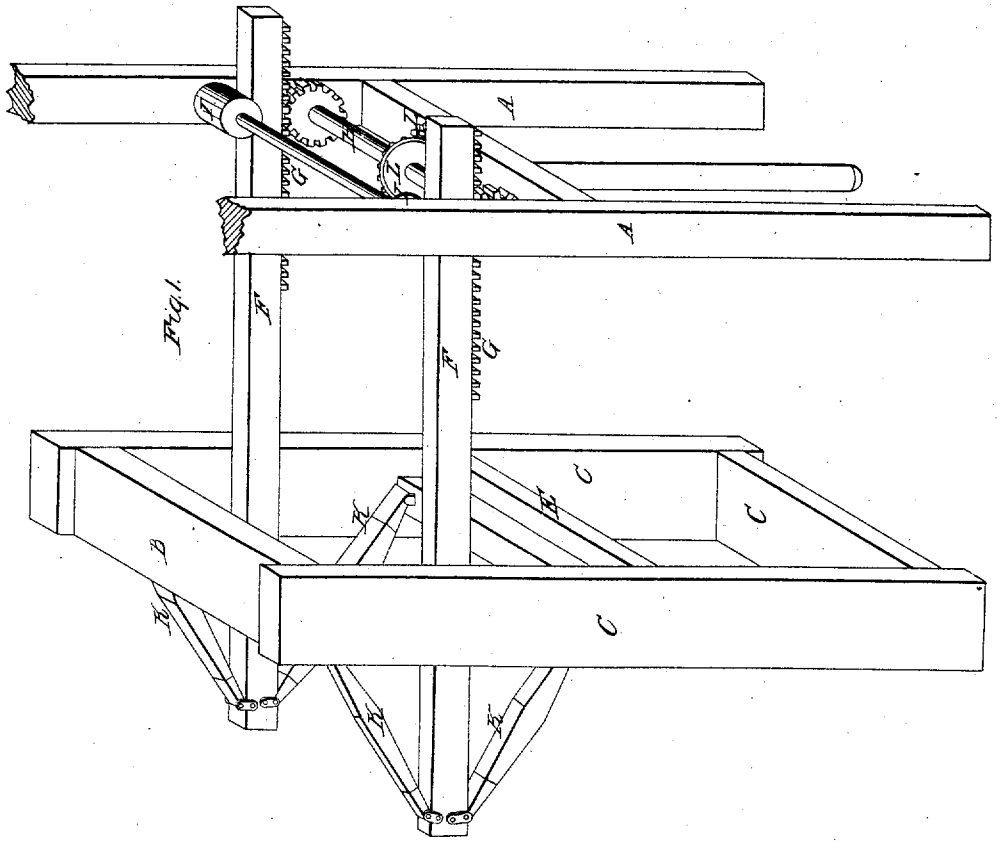


Fig. 1.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

July 20 1831

6634X Philonzo Rayne and Joshua Randell of Claiborne Mississippi

Letters Patent.

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Philonzo Rayne and Joshua Randell themselves of their improvement in the Press for pressing Cotton and other soft fibrous substances

Be it known That we Philonzo Rayne and Joshua Randell of Port Gibson Claiborne County State of Mississippi have made an improvement in the Press for pressing cotton and other soft fibrous substances which is described as follows. The Press consists of the following parts, viz:
1. The Frame. 2 The follows and posts. 3. The carriage or ways. 4 The Toggle jointed Levers. 5 The horizontal shafts and gearing. — 1. The Frame consists of two posts about twenty feet high framed into a sill and cap piece of sufficient strength to sustain the required pressure. Also two side pieces about twenty feet long and ten by sixteen inches thick, which may be either framed into a separate end piece or into the frame of a house to support the carriage or ways and gearing to be hereafter described. 2. The follows and Posts. The Posts or stirrups are framed into a head piece by making the heads of the posts lap over the head piece inwards. The lower ends have projections outward on which the ends of the levers hereafter described work. From the head piece is suspended the follows hung on hinges. and which is made sufficiently long to press down the cotton or other substance without opening the Box. Grooves are left on the lower side to allow the ends to pass.
3. The Ways or carriage are about twenty five feet long of sufficient size and strength to receive and support the levers to be hereafter described. On the lower side and about seven feet along the inward end are cogged racks for receiving the cogs placed on a horizontal shaft. The ways are supported on the horizontal shafts, and have friction rollers placed over them to keep them in place. 4. The Toggle jointed Levers. These are made by preparing four pieces of good ash. oak or any suitable timber about eight or ten feet long and eight inches square made a little smaller at each end to receive the iron, to be described: At each end of each lever is inserted a piece of cast or wrought iron. about 18 inches long 2 inches thick 6 inches wide and having at the lower end a circular head on which it turns. The iron is let into the lever by a T head. which keeps it fast when working up and down. On each side of the circular head are gudgeons to work in Brass placed in the head & foot and on each side of the ways. These pieces of iron with circular heads and gudgeons are fastened to the ways by straps or bolts of iron. 5 The Horizontal Shafts and Gearing. A horizontal shaft is made of a length equal to the width of the frame and bearing on gudgeons and brass. On each end (placed) is a cog wheel working in the racks on the under side of the ways. and a bevelled cog wheel in the centre working into a cog wheel on the driving shaft. (Operation). The cotton or

Drawing

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substance to be pressed being placed in the box in the usual way. The main shaft is turned by animal or other power; the cog wheel on the upright shaft turns the bevel wheel on the horizontal shaft which causes the cog wheels on its ends to work in the racks of the wings and draw them in; these move bring forward and straighten the toggle jointed levers which press down the follower with the cotton in the box. The ends are then inserted thro the openings on the lower ends of the follower and the bale ties. When this press is used for expanding cotton the post, or stirrups may be dispensed with, and the toggle jointed levers applied immediately to the follower. The box may also be dispensed with. What we claim as our invention and for which we solicit a Patent is the before described machine for pressing cotton or other soft fibrous substances. For the to illustrate our invention we refer to the model and drawing of the same deposited in the Patent Office.

Lorenzo Payne
Joshua Rundell

Witness
W. H. Hooper
John Robertson

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