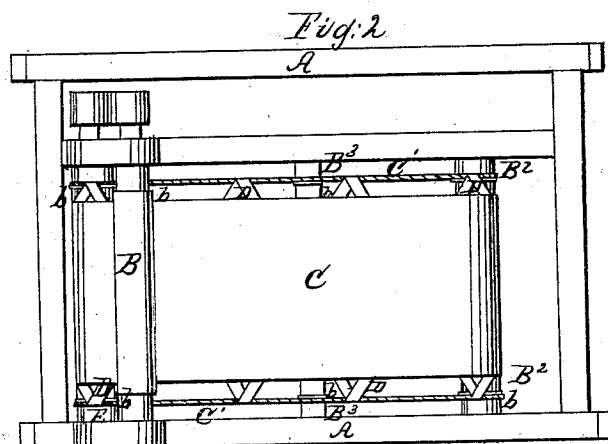
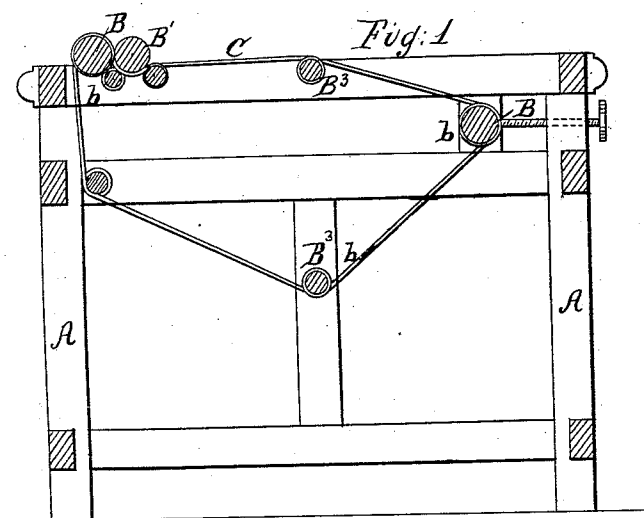


H. B. Goucher.

Wine and Cider Press.

N^o 83,844.

Patented Nov. 10, 1868.



Witnesses
Geo. O. Herber
Geo. W. Herbert

Inventor
H. B. Goucher
By his Atty
W. Randolph

United States Patent Office.

H. B. GOUCHER, OF PECATONICA, ILLINOIS.

Letters Patent No. 83,844, dated November 10, 1868.

IMPROVED WINE OR CIDER-MILL.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, H. B. GOUCHER, of Pecatonica, in the county of Winnebago, and State of Illinois, have made certain new and useful Improvements in Wine and Cider-Mills; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improvement in the cider-mill patented by S. A. Hebard, on the 1st of September, 1863, said patent being numbered 39,731.

The improvement consists of a device for holding the apron used in the above machine distended to its fullest width, at all times, during the operation of the machine.

The machine patented by the said Hebard was inoperative, by reason of the apron used thereon drawing toward the centre of the rollers, and gradually becoming twisted into a rope-like mass, wholly unfitted for the purposes of a conveyer, for which it was intended.

To enable those skilled in the art to make and use my improved machine, I will proceed to describe its construction and operation.

Figure 1 of the drawings is a longitudinal central sectional elevation of the improved machine.

Figure 2 is a plan of the same.

In this mill, like that of the Hebard patent above recited, I use a frame, A, for sustaining the operative parts of the machine, and pressing-rollers B B'; also, the conveyer-apron C, which passes around the roller

B and the rear roller B', as well as the intermediate rollers B². The said apron conveys the fruit to the rollers B B', between which the juice or cider is expressed. This much of the machine of the present invention is quite similar to that of the Hebard patent. In order to keep the apron distended to its fullest width at all times, as it did not do in the Hebard machine, I employ two continuous ropes C', constructed of metal, hemp, sea-grass, or any other suitable material, and placed by the sides of the said apron, as is clearly shown in fig. 2, and distant therefrom, say, from two to four inches, more or less. These ropes are held at uniform distances from the edges of the apron, by means of the flanges b, formed on the aforesaid rollers B B' B² for that purpose.

Elastic bands D, securely fixed to the edges of the apron, and from four to six inches apart, and attached to the ropes C', by passing around them, or by any equivalent device, (as, for instance, rings of metal,) will hold the apron, at all times, distended to its fullest width, and thereby insure the perfection of the machine, and its thorough practicability.

Having described my invention,

What I claim, is—

The apron C, ropes C', and elastic-bands D, when arranged and employed substantially as and for the purpose set forth and described.

H. B. GOUCHER.

Witnesses:

M. RANDOLPH,
ROBERT BURNS.