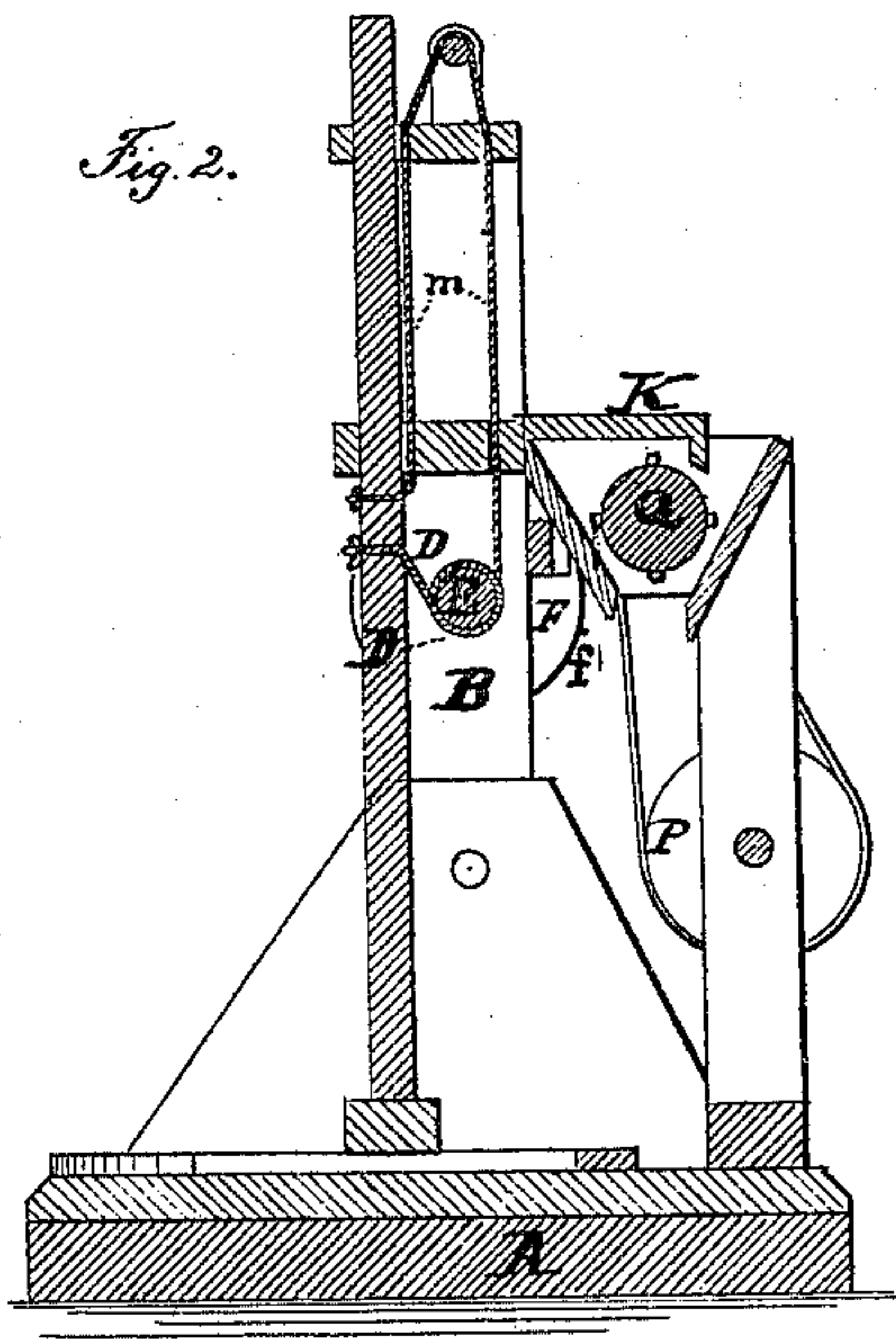
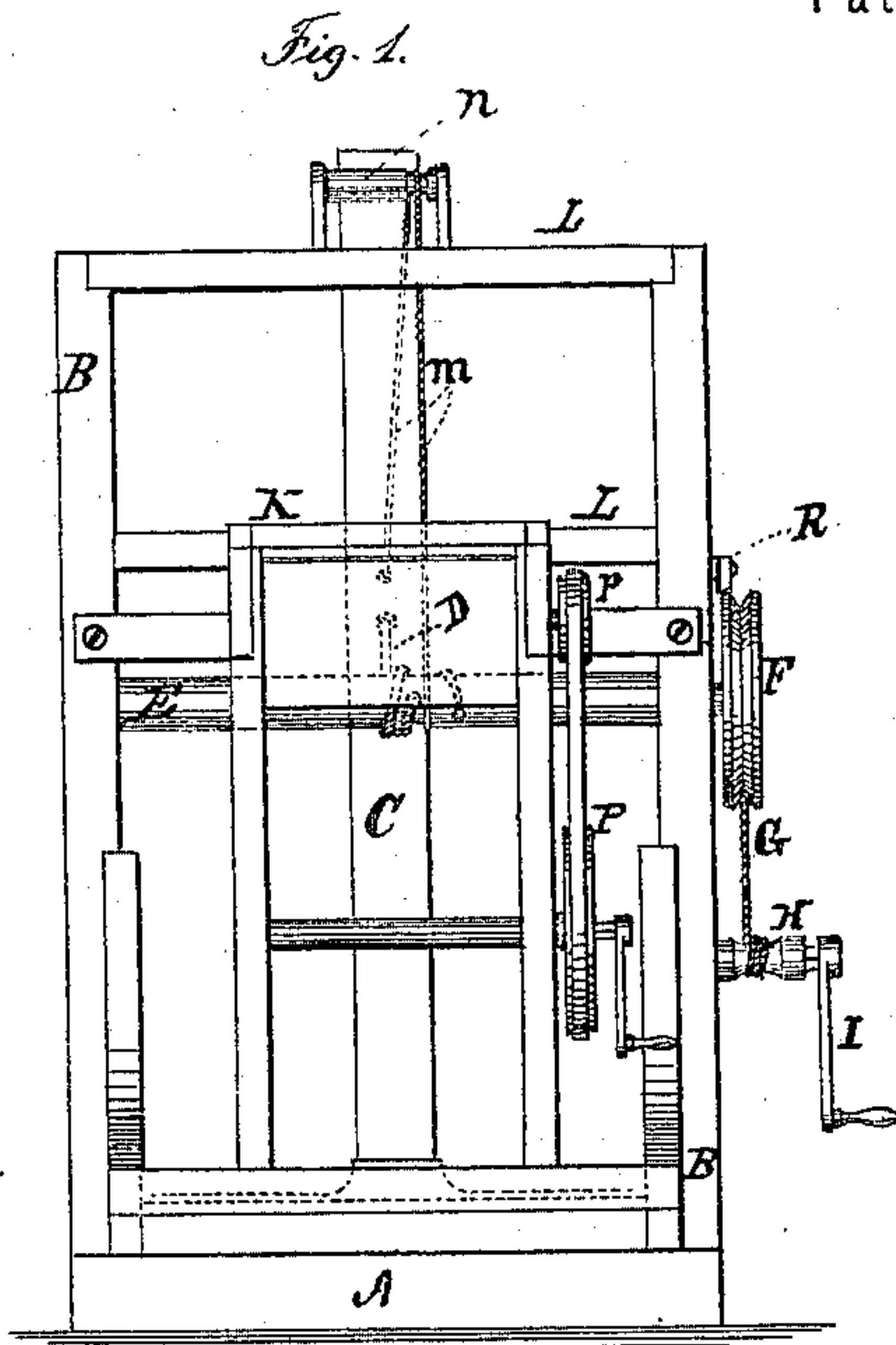


J. I. WHITE.

Cider-Mills.

No. 133,609.

Patented Dec. 3, 1872.



WITNESSES:

*Herm. Lauten.*  
*M. M. Leggett.*

INVENTOR:

*James I. White.*  
*By*  
*Nells W. Leggett.*  
*Attorney*

# UNITED STATES PATENT OFFICE.

JAMES I. WHITE, OF ZANESVILLE, OHIO.

## IMPROVEMENT IN CIDER-MILLS.

Specification forming part of Letters Patent No. **133,609**, dated December 3, 1872.

*To all whom it may concern:*

Be it known that I, JAMES I. WHITE, of Zanesville, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Cider-Mills; and I do hereby declare that the following is a full, clear, and exact description thereof that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

In the drawing, Figure 1 is a view of the press and mill attachment, in perspective, in which A is the stand and B the uprights. C is a pressure-beam drawn down by means of the rope or chain D. E is an axle; F, a band or pulley wheel; G, a band or chain passing down around the axle H, which is operated by means of the crank I. K is an apple-grinder which operates in connection with the press and discharges its contents in the vat. Fig. 2 is sectional view.

My invention consists in forming a cider mill and press as follows: I form a stand, A, for insertion of the crib or vat, and attach to the sides of same two uprights B. These uprights form the supports for the ends of the axle E and the two cross-pieces L L. The latter are pierced for the free motion of an upright-beam, C. A chain or band, D, passes around the axle E and is attached firmly to the beam C. Another cord or light chain, *m*, is attached to beam C, and, passing up over the roller *n*, comes down and wraps around E in a direction opposite to that of chain D, so that in loosening the pressure by turning the axle the cord *m* raises the beam and holds it at any point required. At the end of the axle E is a pulley-wheel, F, bearing a lug, *f*, over which a link of the chain G may be placed,

and the pressure greatly increased by turning the crank I.

To operate this press, put the apples in the mill and grind them. They fall into the vat or receiver; a cover is then placed over them, and the beam C is brought down upon them by turning the band-wheel F. The chain G is then slipped over the lug *f* and around the pulley F, and by turning the crank I a great pressure is secured and is retained by a pawl, R, which falls into a ratchet on the wheel F. The cider-mill is operated by a crank attached to a band-wheel, P; over this a band passes, giving motion to a smaller wheel, *p*, thus accelerating the motion of the toothed drum or grinder. This drum Q bears teeth which carry the apples forward and crush them against the sides of the mill.

I do not limit myself to the kind of drum shown, but particularly to this method, in connection with the band-wheels and band for increasing the velocity.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination in the press of the beam C, hands or chains D *m*, axle E, wheel F, band G, axle H, and crank I, together with the pawl and ratchet R, all constructed, arranged, and operating in the manner substantially as set forth and shown.

2. In combination with the press, I claim the hopper, cutting-cylinder, band-wheels, band, and crank, arranged as described.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of August, 1872.

JAMES I. WHITE.

Witnesses:

WELLS W. LEGGETT,  
G. ARTHUR.