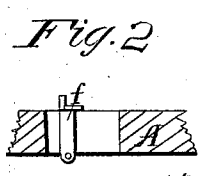
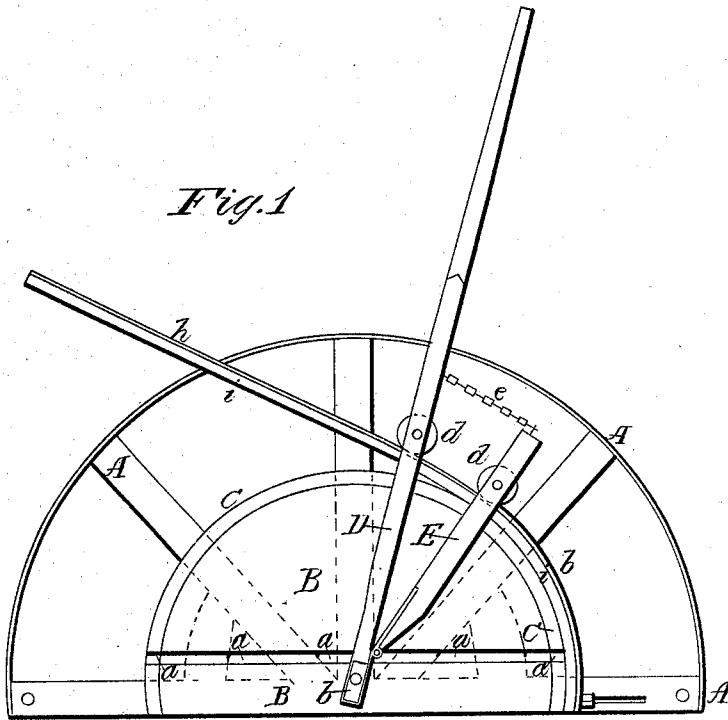


*D. A. Sprinkle,*  
*Bending Wood,*  
*No. 100,685, Patented Mar. 8, 1870.*



*Witnesses:*  
*C. L. Ewert*  
*A. Sprinkle*

*Inventor:*  
*David A. Sprinkle*  
*per*  
*Alexander Thawson*  
*Atty.*

# United States Patent Office.

DAVID A. SPRINKLE, OF LEOTI, INDIANA.

Letters Patent No. 100,685, dated March 8, 1870.

## IMPROVEMENT IN MACHINE FOR BENDING FELLOES.

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, DAVID A. SPRINKLE, of Leoti, in the county of Pike, and in the State of Indiana, have invented certain new and useful Improvements in Press for Bending Felloes or Hoops for Vehicles ; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists—

First, in an auxiliary lever hinged at its inner end to the main lever, and connected with it at its outer end by a chain.

Second, in the manner of changing the position of the main lever by means of a reversible box, so as to accommodate the lever to the increased or diminished radius of the former, as the movable former is or is not used.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a plan view of the machine, and

Figure 2 is a vertical section of a portion of the frame.

A represents a frame of any suitable dimensions and shape, although I prefer to make the same in semicircular form.

On the upper side of the frame A is firmly secured the stationary circle or former B, which is provided across its face near the center with a groove, *a*, as seen in fig 1.

Around the circumference of the stationary former B, is placed a movable circle or former, C, which is near its ends provided with a notch or groove forming a continuation of the groove *a* of the stationary former at both ends.

One, two, or more of these movable formers may be used if desired.

On the stationary circle B is pivoted a center-box, *b*, one end of which extends farther beyond the pivot than the other end.

On this box is placed a lever, D, having at a suitable point on its under side a pulley or friction-roller, *d*.

To the inner end of the lever D is pivoted another lever E, which also is provided with a friction-roller, *d*, and connected with the former lever D by a chain, *e*.

A portion of the frame A is slotted, and in this slot is placed an adjustable upright, *f*, to which an iron strap, *h*, is secured.

*i* represents the felloe or hoop to be bent.

The hoop *i* is inserted and held between the end of the movable circle C and the iron strap *h*, and the levers D and E, so arranged that the friction-rollers *d d* will bear on the outer side of the iron strap ; then, by turning the levers from right to left, the hoop is bent around the circle C, the strap *h* keeping the hoop from breaking. When thus bent, a lath, or other strip of wood is inserted in the groove *a*, and nailed to the ends of the hoop or felloe, and can then be taken off.

When it is desired to bend the felloe around the stationary circle B, the levers are taken off the center-box *b*, said box turned around, the levers put on again, and the upright *f* moved closer in toward the circle.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the main lever, the auxiliary lever E hinged and connected to the main lever as described, and both provided with rollers *d d*, substantially as and for the purposes herein set forth.

2. The reversible box *b* pivoted to the stationary former B, and constructed substantially in the manner and for the purposes herein set forth.

3. The arrangement of the frame A, stationary former B, movable former C, groove *a*, levers D E, rollers *d d*, box *b*, upright *f*, and strap *h*, all constructed as described and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 28th day of August, 1869.

Witnesses : DAVID A. SPRINKLE.

ASAHEL WHITMAN,  
GEORGE BEE.