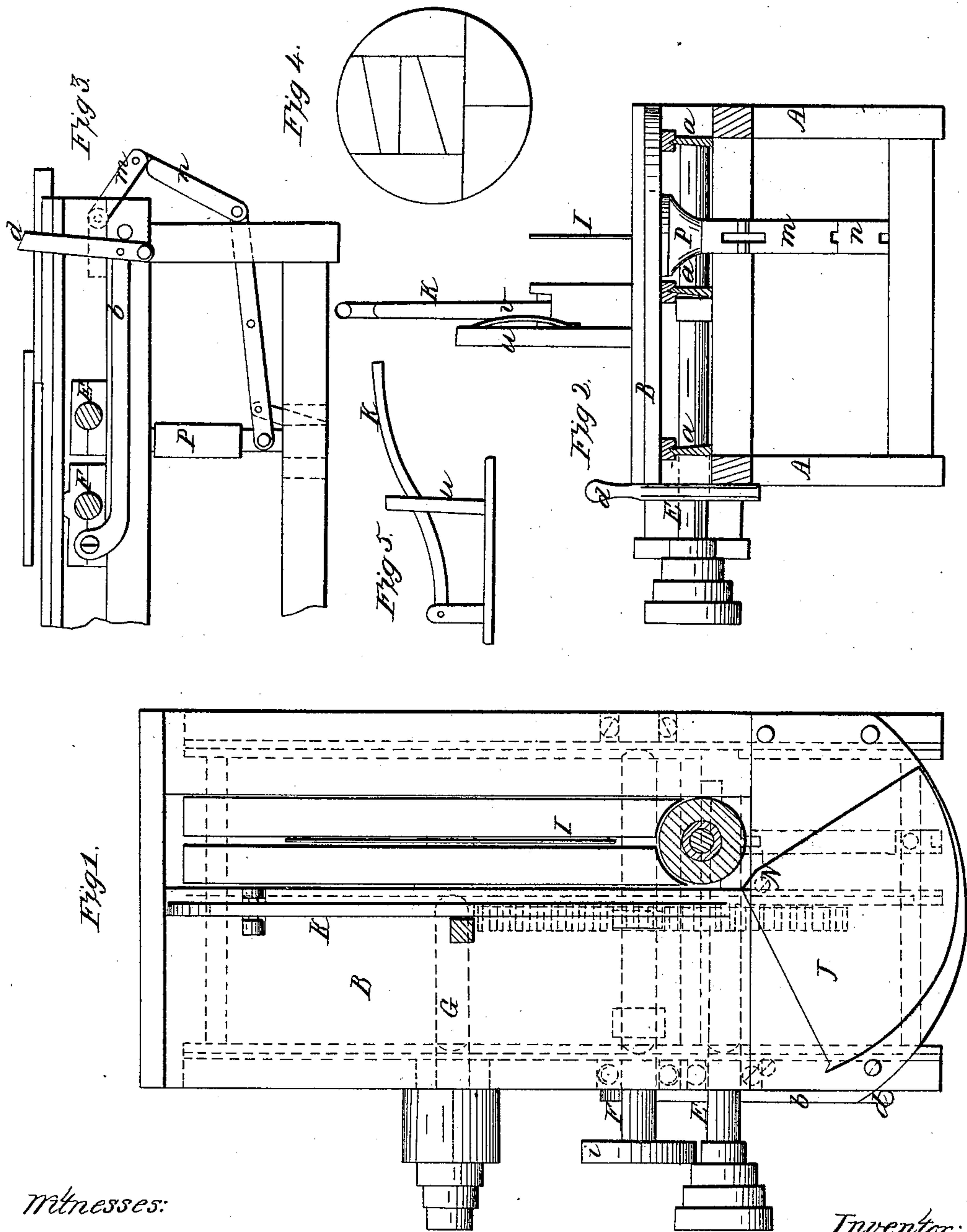


J. C. Brown,
Sawing Shingles,
No 33,822, *Patented Dec. 3, 1861.*



Witnesses:

C. M. Alexander
J. H. Alexander

Inventor:

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UNITED STATES PATENT OFFICE.

JAMES C. BROWN, OF FOND DU LAC, WISCONSIN.

IMPROVEMENT IN MACHINES FOR SAWING SHINGLE-BOLTS.

Specification forming part of Letters Patent No. 33,822, dated December 3, 1861.

To all whom it may concern:

Be it known that I, JAMES C. BROWN, of Fond du Lac, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Machines for Sawing Shingle-Bolts; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A A represent the frame of the machine, which is constructed in a strong and substantial manner, as is customary with the frames of sawing-machines. Upon top of this frame is placed a carriage B, which moves backward and forward over the frame for the purpose of carrying the material to be sawed to the saw. This carriage is provided with grooves on its under side which fit over guides *a a a* for the purpose of keeping it in proper position and directing its course. The carriage is also provided on its under side with a rack, into which a pinion upon the shaft F catches for moving the carriage when desired.

I represents the saw, which is circular and which is secured to the shaft G.

K represents a lever secured upon top of the frame, which answers to hold the material to be sawed down firmly to the carriage. This lever may have a weight to its rear end to draw it down and throw its front end up when not in use, instead of the standard *u* and spring *v* (represented by Figure 2) for holding it up.

P represents an adjustable vertical shaft, the upper end of which is enlarged to form a circular table upon which to place the blocks to be sawed, in order that they may be raised and revolved with the table and lowered again to the carriage, and thus they are easily handled. This cylinder P has a vertical movement through the toggle-joint (represented by the parts *m n*) and through the lever *o*. By means of this joint and lever the table can be raised above the carriage, raising with it the block, which can be revolved with it, and then lowered to the carriage again. This table is very important, as without it the block

could not be handled properly and adjusted without great difficulty and loss of time. The feed-shaft F is secured in a movable journal-box at one end, and said box is moved by means of a connecting-rod *b* and a lever *d*. Belts are used upon the pulleys of the shafts E and G. (Represented in Fig. 1.) The feed-shaft is revolved by means of the friction-wheel *i*, which is pressed against one of the stationary pulleys on shaft E by means of the lever *d* and connecting-rod *b*, which move the journal-box in which shaft F is secured.

J represents a gage which is secured to the carriage, which serves to keep the bolt in position while being sawed. The gage J is seen in Fig. 1, and being pivoted to the carriage at *z* is readily adjusted to hold the material firmly to the saw either by hand or by a series of holes and pins.

Fig. 4 represents a block sawed into bolts by this machine. The usual way of preparing bolts is by splitting, but this mode is slow and expensive. Wood cannot be split straight always, and in truing up every bolt much material and much time and labor are lost. The blocks are sawed from the log by cutting it crosswise at proper distances. These blocks are then taken, and being placed on either end upon the table on cylinder P, are fed to the saw and are thus upon end cut into suitable bolts for making shingles.

When bolts are prepared by this machine, they are ready for use at once and without waste.

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

The use of the adjustable revolving table or its equivalent, substantially as described, for sawing the blocks on end, whereby they may be divided into suitable bolts for shingles, as specified.

In witness that I claim the foregoing I have hereunto set my name in the presence of two witnesses.

JAMES C. BROWN.

Witnesses:

W. D. MIHILLS,
WM. A. FOSTER.