

W. M. Ferry, Jr.,
Saw Mill Appliance,

N^o 26,262,

Patented Nov. 29, 1859.

Fig 1

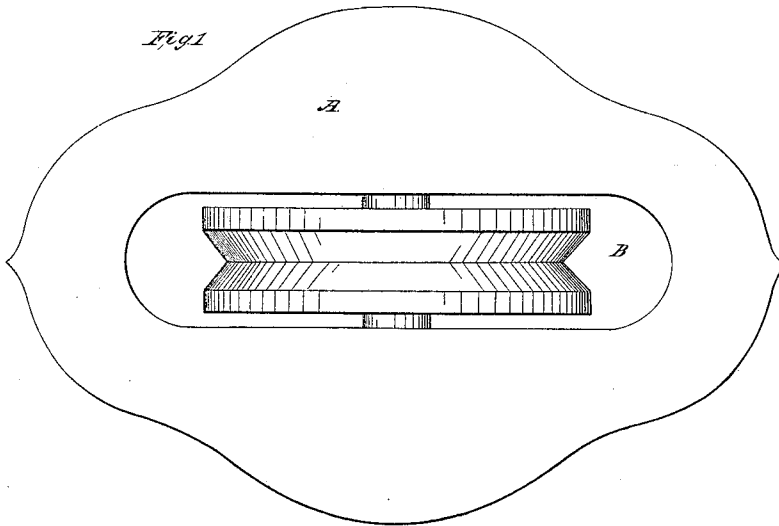


Fig 3

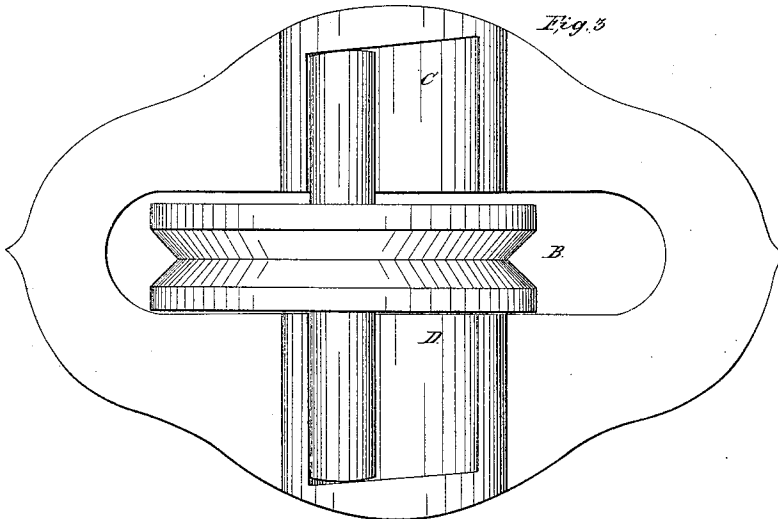
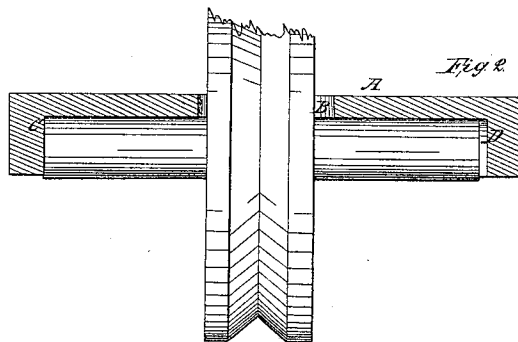


Fig 2



Witnesses

C. S. Downer
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UNITED STATES PATENT OFFICE.

WM. M. FERRY, JR., OF FERRYSBURG, MICHIGAN.

JOURNAL-BOX FOR SAWMILL-CARRIAGES.

Specification of Letters Patent No. 26,262, dated November 29, 1859.

To all whom it may concern:

Be it known that I, WILLIAM M. FERRY, Jr., of Ferrysburg, in the county of Ottawa and State of Michigan, have invented a new and useful Improvement in Constructing Offset Journal-Boxes for Sawmill-Carriages; 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, forming a part of this specification, in which—

Figure 1 is a top view of my invention. Fig. 2 is a vertical transverse section of the same, and Fig. 3 is an inverted view of the same.

Similar letters of reference, in each of the several figures indicate corresponding parts.

The object of my invention is to obviate the difficulty which has always occurred with the ordinary offset boxes made in two separate pieces; said difficulty being the impossibility of keeping them in line relatively to each other and from spreading apart and thus becoming useless for the purpose intended, and the invention consists in a single casting molded with an intermediate space and with offsetting boxes on each side of said space; whereby the one casting answers for both journals of the friction wheel or roller and provides for the introduction of the roller and lateral play of the same. By having the two journal boxes cast on a broad plate, they are braced and held permanently from lateral play independently of one another and therefore all the objections above stated to the ordinary devices, are removed, and a perfect contrivance produced.

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

In carrying out my invention, I form a suitable mold and then pour the metal into the same after the ordinary manner of making castings. By this operation I produce a casting A, which has an opening B, in its

center and journal boxes C, D, on each side of said opening, which form a part and parcel of the casting A.

The construction of the offset boxes is similar to those in common use and therefore need not be particularly described here.

The casting A, is brought to a point at the center of each end so that it may be adjusted with greater ease on a direct center line marked on the underside of the log carriage.

The great advantage of casting the plate and offset journal boxes in one piece is that it gives greater strength and accuracy of offset, for it is impossible for the two offsets of the journal boxes to wear unevenly or to get out of position, as is frequently the case under the old method. It also can be made at less cost and applied more conveniently.

The part A, of the casting is secured to the underside of the saw-mill carriage and the journals of the roller or friction wheel inserted in the boxes and the machine started ahead. When the carriage has reached its termination and its movement is reversed, then, owing to the resistance or friction of the wheels on the track, it slides free of the same and thus causes the other sides of the journal boxes to come in contact with the journals, and on reaching the said end the carriage will have been forced over a short distance from the saw by means of the inclines of the offset boxes, thus placing the saw away from the log and preventing the scratching of the face of the log and avoiding the heating of the saw.

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

A new article of manufacture, to wit, a single casting A, molded with an intermediate space B and with offsetting boxes C, D, on each side of said space, substantially as and for the purposes set forth.

WM. M. FERRY, JR.

Witnesses:

A. RAINNY,
JOHN REYNOLDS.