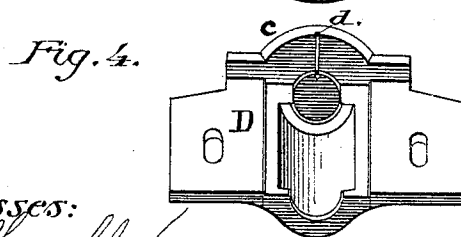
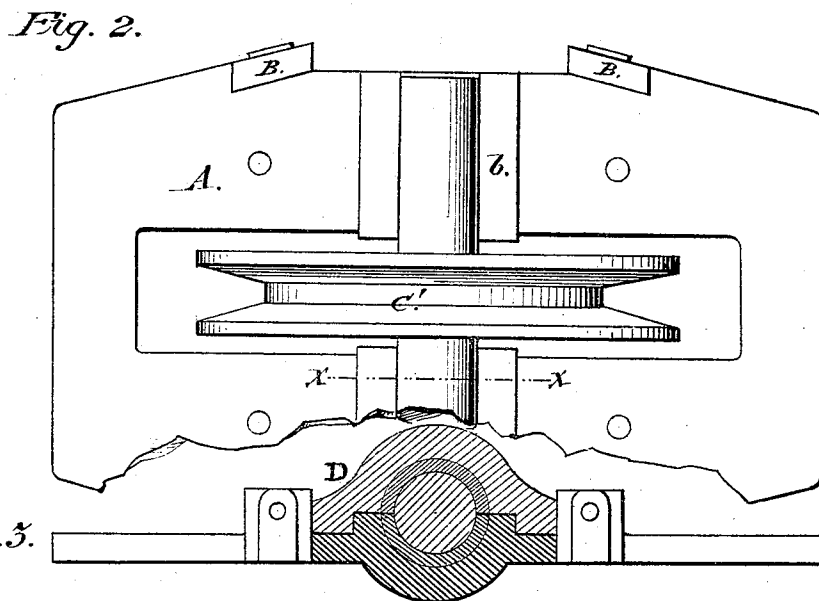
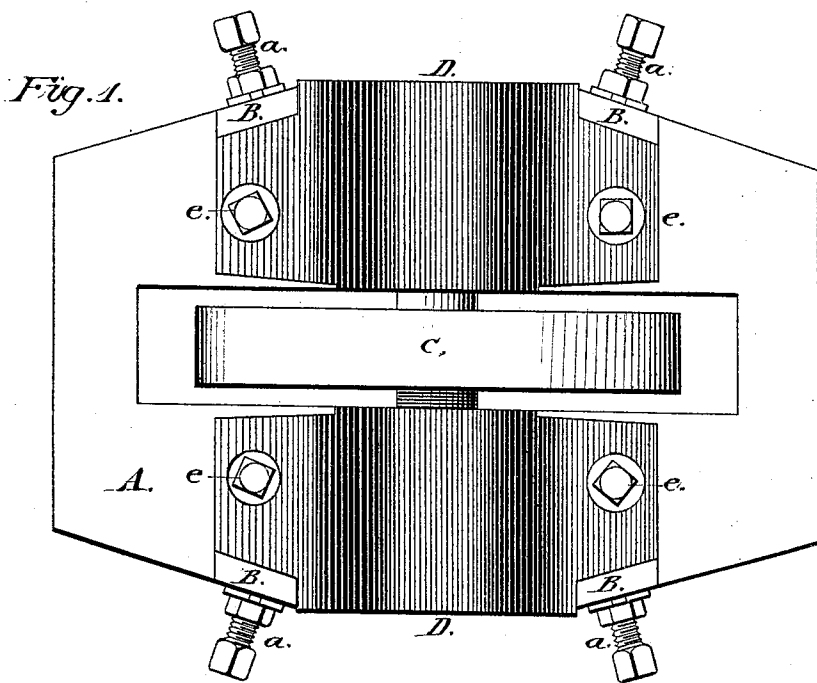


A. RODGERS.
Journal-Boxes for Saw-Mill Carriages.
 No. 151,622. Patented June 2, 1874.



Witnesses:
David M. Laughlin
Edwin J. Latimer

Inventor:
Alexander Rodgers

UNITED STATES PATENT OFFICE.

ALEXANDER RODGERS, OF MUSKEGON, MICHIGAN.

IMPROVEMENT IN JOURNAL-BOXES FOR SAW-MILL CARRIAGES.

Specification forming part of Letters Patent No. **151,622**, dated June 2, 1874; application filed February 2, 1874.

To all whom it may concern:

Be it known that I, ALEXANDER RODGERS, of Muskegon, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Journal-Boxes for Saw-Mill Carriages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

This invention relates to the class of journal-boxes, like those which are placed upon the under side of saw-mill carriages, in which the wheels carrying the carriage revolve, and are subjected to a great side strain, causing excessive wear of the end of the journal, as well as of that portion of the box against which the end of the journal bears, in a short time allowing end play, and, in the case of saw-mill carriages, causing an irregularity in the thickness of the lumber sawed; and it consists in the construction and arrangement of the parts, as will be hereinafter fully set forth, and by which the difficulties above mentioned are obviated.

In the accompanying drawings, similar letters of reference indicate corresponding parts in the different figures.

Figure 1 is a plan view of the lower side of the journal-box as seen when in position upon the saw-mill carriage. Fig. 2 is a view of the upper side of the box, a portion having been broken away to show the position of the journal and its relation to the end bearing of the cap. Fig. 3 is a section upon the line *x x* of Fig. 2. Fig. 4 is a perspective view of the cap.

A represents the main portion or bed of the journal-box, and is formed with four projecting lugs, B, through which pass the adjusting-screws *a*. A large rectangular opening is made in the middle of this bed, within which the carrying and guiding wheels C or C' are to be placed. A large semicircular cavity, *b*, is also formed for the reception of the babbitt-metal lining, which forms the bearing-surface of the box upon the journals of the wheels. Suitable

holes are also bored at any desired point for the reception of the bolts by which the box is to be secured to the carriage. The cap D is formed with a projection, *c*, which is kept in contact with the ends of the journals by means of the adjusting-screws *a*, the points of which bear against its edge. It is also provided with an enlarged semicircular cavity, which surrounds the lower half of the journals, and is filled with cotton-waste, or some other similar absorbent, which will retain the oil used for the purpose of lubricating the journals, an orifice being formed at *d*, partly in the bed-piece and partly in the cap, through which it is introduced, this part of the journal-box being generally outside of the pieces of timber which form the sides of the carriage. This cap is retained in position by bolts *e*, which pass through elongated openings in the cap, which admit of its adjustment by the screws *a*.

The wheels C and C' are those in common use, one having a plain surface, and the other or guide wheel being furnished with a groove in its periphery, which runs upon a V-shaped track, thus forming a steady guide for the saw-mill or other carriage.

It will be seen that this method of construction furnishes a ready means of adjusting the end bearings of the journal, so as to prevent any end play; also, for placing and keeping a series of the wheels in line with each other.

Having thus described my invention, I claim—

1. The bed A, provided with the lugs B and adjusting-screws *a*, in combination with the cap D, having the projection *c*, and cavity for the reception of absorbent material, substantially as specified.

2. A journal-box constructed in all its parts in the manner and operating substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of December, 1873.

ALEXANDER RODGERS.

Witnesses:

DAVID McLAUGHLIN,
EDWIN S. LATIMER.