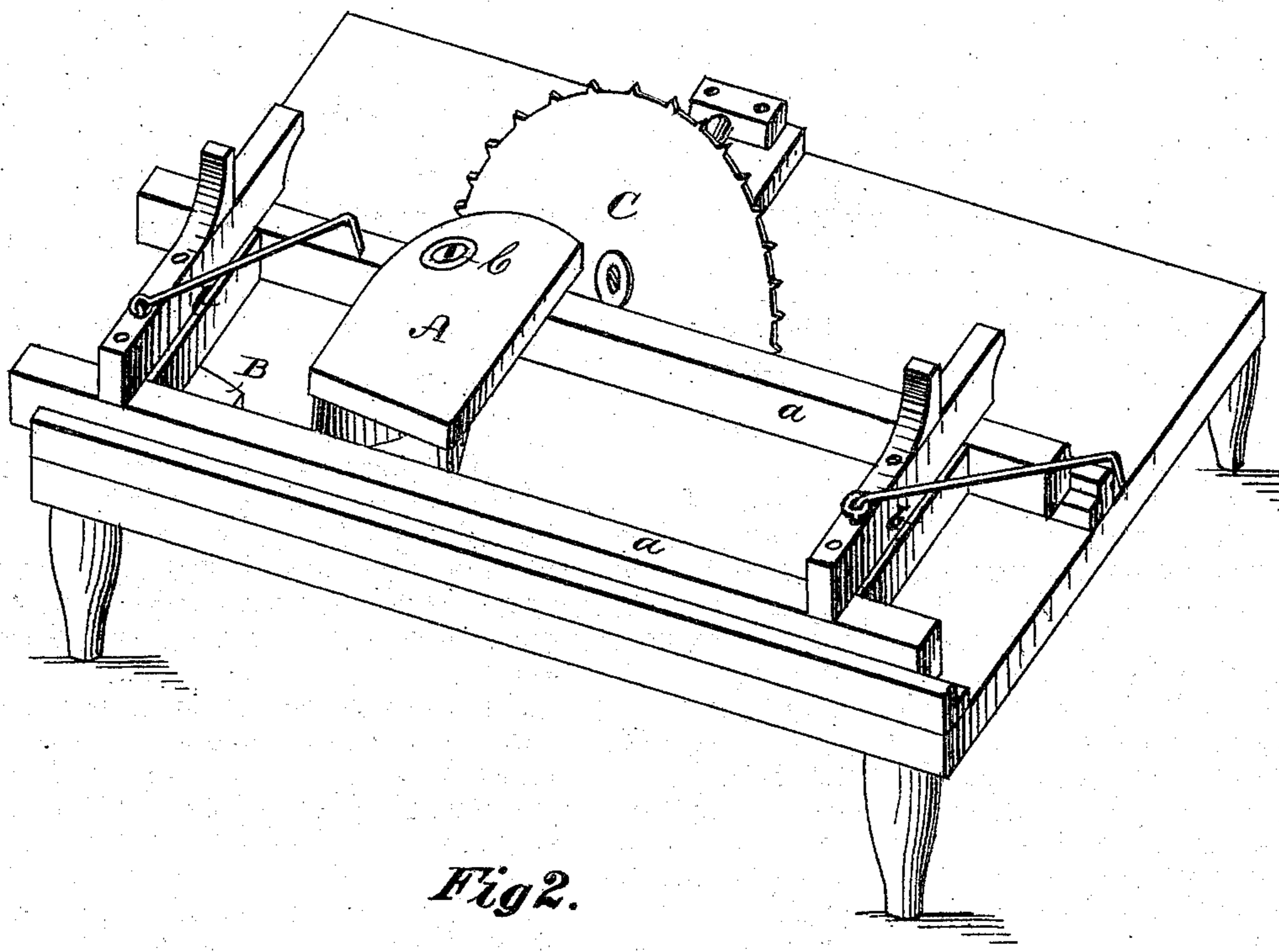


**J. HIDDEN.**  
**Saw-Mill Head-Blocks.**

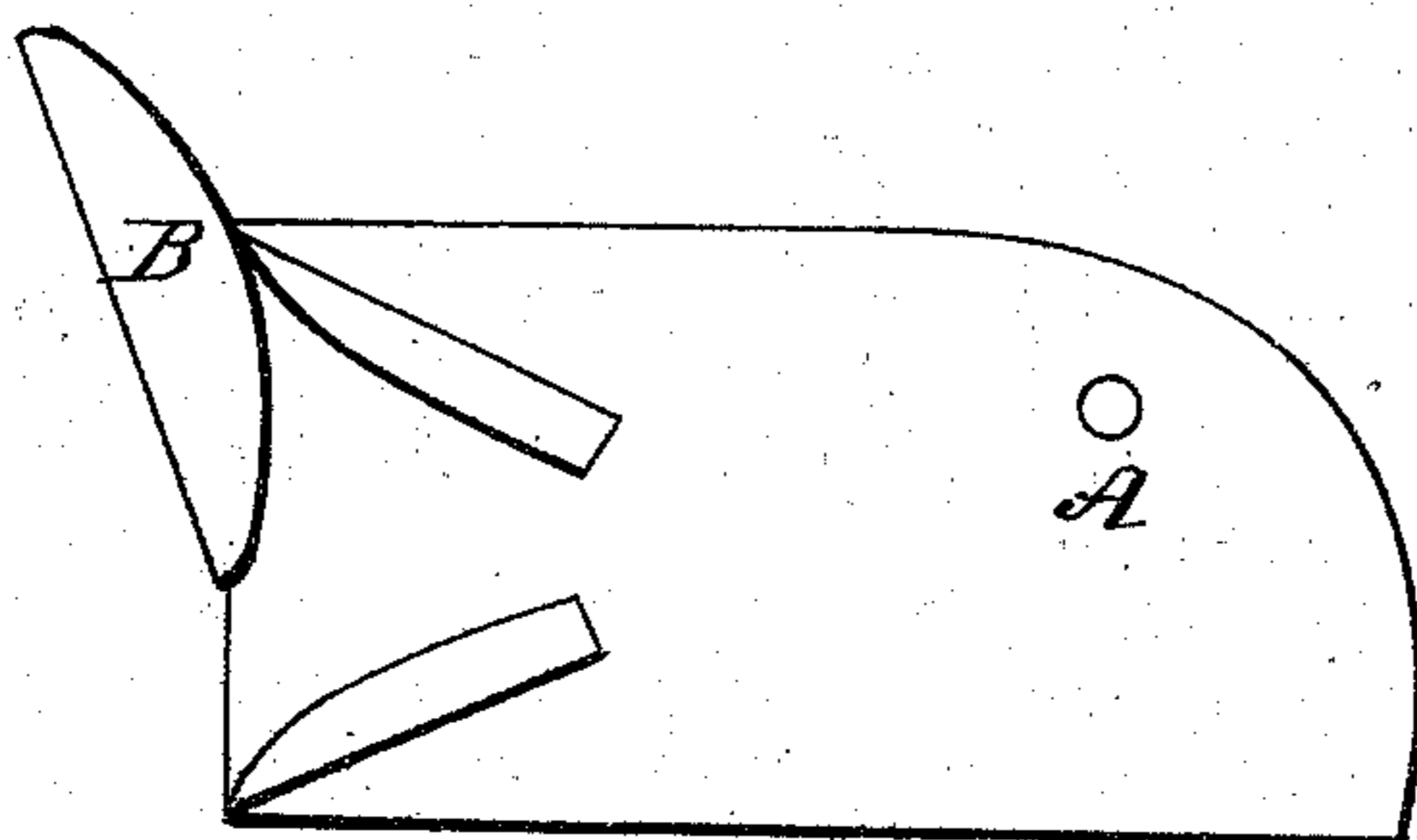
No. 156,664.

Patented Nov. 10, 1874.

*Fig 1.*



*Fig 2.*



*Witnesses*

*E. W. Hildworth*  
*J. C. Harris*

*Inventor.*

*James Hidden*  
*By his Attorney*  
*J. J. Dravitt*

# UNITED STATES PATENT OFFICE.

JAMES HIDDEN, OF BARRE, VERMONT.

## IMPROVEMENT IN SAW-MILL HEAD-BLOCKS.

Specification forming part of Letters Patent No. **156,664**, dated November 10, 1874; application filed February 16, 1874.

*To all whom it may concern:*

Be it known that I, JAMES HIDDEN, of Barre, in the county of Washington and State of Vermont, have invented new and useful Improvements in Saw-Mill Carriages, whereby the planks, boards, timber, &c., are supported while being cut from the log by the saw, of which the following is a specification:

The object of my invention is to prevent the great waste of lumber by splitting off at or near the end of the board while sawing; and the nature of the invention consists in the combination of the devices employed, as will be hereinafter more fully set forth.

Figure 1 shows the saw-carriage and head-blocks with my invention attached. Fig. 2 shows the cam bottom-side up with its shoe B.

A shows the cam as connected with and attached to the side of the carriage by pivot C, on which it turns as the carriage moves to and fro. Pivot C, which passes through the cam near the edge of the rounded corner thereof and connects it to sill *a*, is surrounded by a washer and rubber to prevent its working loose, and to keep the cam in its proper place. B represents a shoe attached to the floor of

the mill, and in position between the sills *a a* to trip the cam, as it moves to and fro with the carriage, at the proper time to throw or turn out the long side of the cam immediately after it passes the saw, and to return it before reaching the saw when the carriage is run backward.

The cam is of such a thickness or height as when it is thrown round, as stated above, it passes just under the log, and extends a sufficient distance to allow the board, plank, &c., that is being cut from the log, to rest thereon.

*a a* represent the parallel sides of the carriage; *b b*, the head-blocks.

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

The combination of the pivoted cam A with the carriage-sill *a* and shoe B, all constructed, arranged, and operating substantially as and for the purposes herein described.

JAMES HIDDEN.

Witnesses:

THOMAS J. DEAVITT,  
G. W. AINSWORTH.