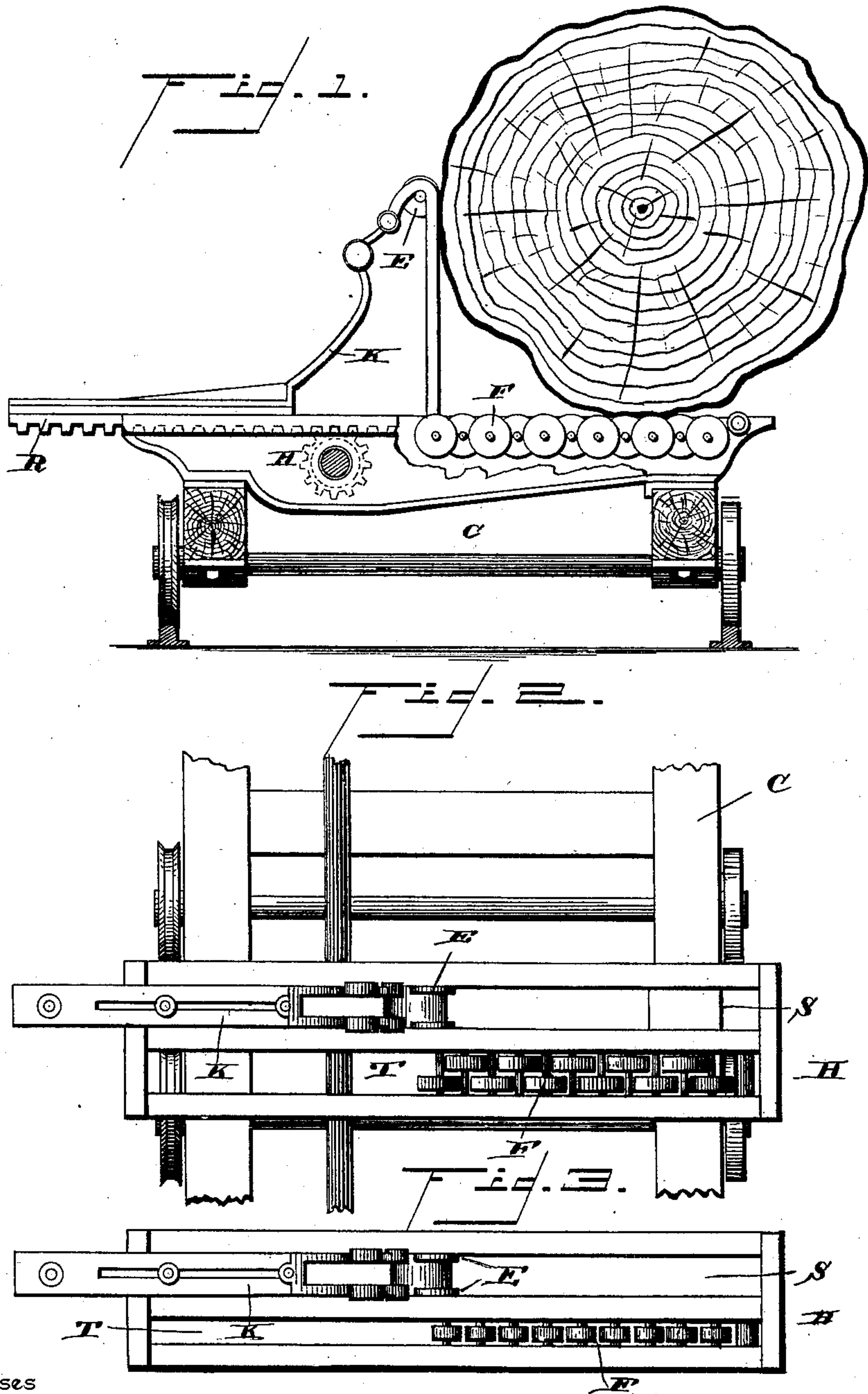


(No Model.)

F. McDONOUGH.  
MACHINE CARRIAGE.

No. 432,549.

Patented July 22, 1890.



Witnesses

*Samuel K. L.*

*A. L. Collamer*

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By *his* Attorneys,

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# UNITED STATES PATENT OFFICE.

FRANK McDONOUGH, OF EAU CLAIRE, WISCONSIN.

## MACHINE-CARRIAGE.

**SPECIFICATION** forming part of Letters Patent No. 432,549, dated July 22, 1890.

Application filed February 28, 1890. Serial No. 342,142. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK McDONOUGH, a citizen of the United States, residing at Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented a new and useful Machine-Carriage, of which the following is a specification.

This invention relates to wood-working machines, and more especially to the carriages upon which are supported the logs which are to be sawed or operated upon.

The object of the present invention is to provide such a carriage which will facilitate the rotation of a large-sized or heavy log or its change in position from one side to another, so that all of its different faces may be operated upon. This object I accomplish by my improved carriage, which consists, essentially, of friction-wheels journaled in and projecting above the head-block, and also, if desired, of other friction-wheels set in the upper part of the knee, all as hereinafter and more fully described, and illustrated in the accompanying drawings, in which—

Figure 1 is a transverse section of the carriage of a circular sawing machine. Fig. 2 is a plan view of the same. Fig. 3 is a slightly different plan view of the head-block.

Referring by letter to the accompanying drawings, C is the ordinary carriage of a wood-working machine, which may be either a sawing or a planing machine, as will be understood. H is one of the transverse head-blocks of this carriage, having a slot S, and in the slot moves the knee K, which is operated by a toothed wheel engaging a rack R in the usual manner.

Coming now to the present invention the letter F designates a number of friction-rollers journaled in a transverse slot T in the head-block H, their journals extending longitudinally of said head-block and their upper edges projecting slightly above the upper face thereof. These friction-rollers may be arranged as shown in Fig. 3, although I prefer the arrangement of Figs. 1 and 2. In this preferred arrangement the alternate rollers

shafts, and their bodies lap by each other, so that almost a continuous flat upper face is formed, which is above the upper face of the head-block H. The advantage of this construction is that friction-rollers of larger diameter can then be used, because if the rollers were placed edge to edge, as shown in Fig. 3, they would have to be of comparatively small diameter, otherwise too large spaces would be left between them.

At the upper end of the movable knee K, I sometimes insert a single friction-roller E, as best shown in Fig. 1, and this roller is especially useful when logs of very large diameter are being treated, especially when they are first placed upon the carriage.

It will be understood that the dogs D are used at any suitable points along the carriage. In fact, these dogs must be used, in order that the log may easily move upon its roller-faced support.

Although I have illustrated but one head-block and one knee, it will be understood that the other head-block and knee may be of the same construction or not, as preferred.

Having thus described my invention, what I claim is—

1. A carriage for wood-sawing machines, the head-block of which is provided with friction-rollers in its upper face, arranged alternately and in parallel lines, as and for the purpose set forth.

2. A carriage for wood-working machines, whose head-block H has a transverse slot T and a number of friction-rollers F, whose shafts extend across said slot and are journaled in the sides thereof, the rollers being located alternately at opposite ends of their shafts, and their bodies lapping by each other and projecting slightly above the upper face of the head-block, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FRANK McDONOUGH.

Witnesses:

T. F. FRAWLEY,  
W. M. HARRIS.