(No Model.)

R. M. WEBB.

TIMBER ROLL.

No. 364,693. Patented June 14, 1887.

FIG. 1.

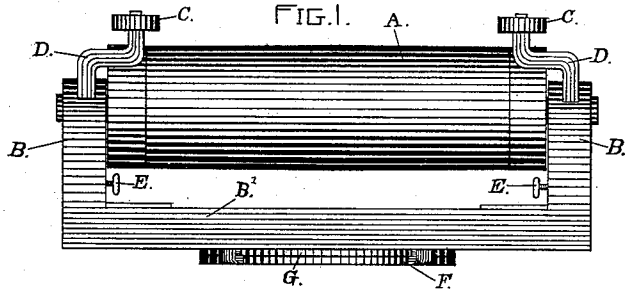


FIG. 2.

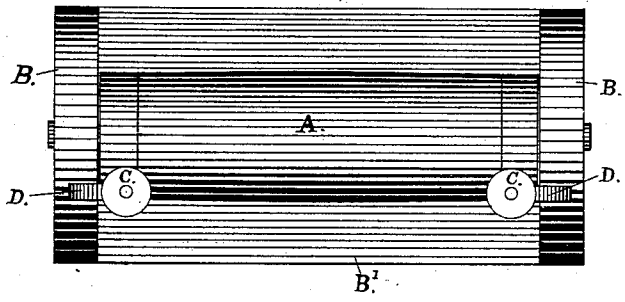


FIG. 3.

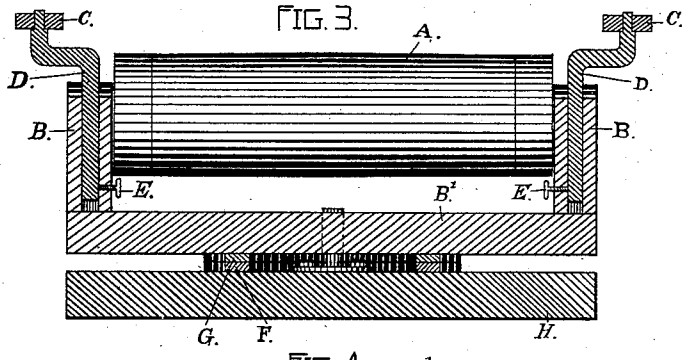
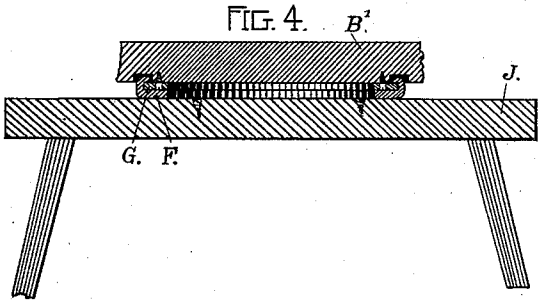


FIG. 4.



ATTEST,

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UNITED STATES PATENT OFFICE.

ROBERT M. WEBB, OF SAN FRANCISCO, CALIFORNIA.

TIMBER-ROLL.

SPECIFICATION forming part of Letters Patent No. 364,693, dated June 14, 1887.

Application filed October 12, 1886. Serial No. 215,981. (No model.)

To all whom it may concern:

Be it known that I, ROBERT M. WEBB, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented a new and useful Timber-Roll, of which the following is a specification.

My invention relates to improvements in timber-rolls, which will be readily understood by reference to the accompanying drawings and the letters referring thereto.

Figure 1 is a front elevation; Fig. 2, a plan view; Fig. 3, a front elevation showing the frame in section, and Fig. 4 a broken section showing a bench.

A represents the roll; B, the side frame or that portion of the frame which supports the roll-journals; B′, the bed-plate of the roll-frame.

C represents the guide-rolls; D, the adjustable guide-roll standards.

E represents the set-screw for setting the guide-roll standards fast when adjusted.

F represents the upper, and G the lower, disk of the turn-table or pivot of the roll-frame.

H represents the lower bed-plate.

The following is the construction of the same. I form the roll A and frame B and B′ of metal or such other material as is usually employed in the construction of timber-rolls. I form the socket for the guide and adjusting-standards D square, so as to correspond with each other in relative position—that is to say, when adjusted forward or backward, out or in, the rolls will be equally distant from the middle of the roll A. I also make the shanks of the adjusting-standards D square, so that they may be quickly and equally adjusted, and I find such adjustment the most practical, although I am fully aware that any other angular form may be employed for the purpose; or the stud of the guide roll standard may be made round, with grooves to receive the set-screws E and hold them in position when adjusted.

The following is the operation of the invention: When handling narrow timbers, I turn the guide-rolls C in toward the middle of the roll A. I then place the timber upon the same in any direction where the timber may lie. I then turn the timber or lumber upon the roll, which turns freely upon its turn-table or pivot F and G, which may either be resting directly upon the ground or upon any bed-plate or bench—as H and J—in required direction, and while the guide-rolls C hold the timber over the center of the roll A they prevent friction, and allow the same to slide freely over the rolls A. When a wide piece of lumber is being handled, the anti-friction adjusting-rolls C are turned out to adjust to the required width. The standards D are raised and lowered and set fast by means of the set-screws E, thus raising or lowering the guide-rolls C.

I often employ anti-friction rolls or balls around the roll-journals to avoid the necessity of lubricating the same; but as the device is well known I have not shown it in the drawings.

I do not confine myself to the exact form of frame shown, or to any particular material for construction; but,

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

1. In timber-rolls, the anti-friction-rolls C and bent adjustable standards D, in combination with the frame B and B′ and roll A, for the purpose of holding the timber over the roll and relieving the friction, constructed and operated substantially as and for the purposes set forth.

2. The anti-friction-rolls C and standards D, with set-screws E, in combination with the frame B and B′ and the pivot or turn-table F and G, for the purpose of turning and guiding the timber while avoiding friction, constructed and operated substantially as and for the purposes set forth.

ROBERT M. WEBB.

Witnesses:

JOHN H. REDSTONE,

L. E. REDSTONE.