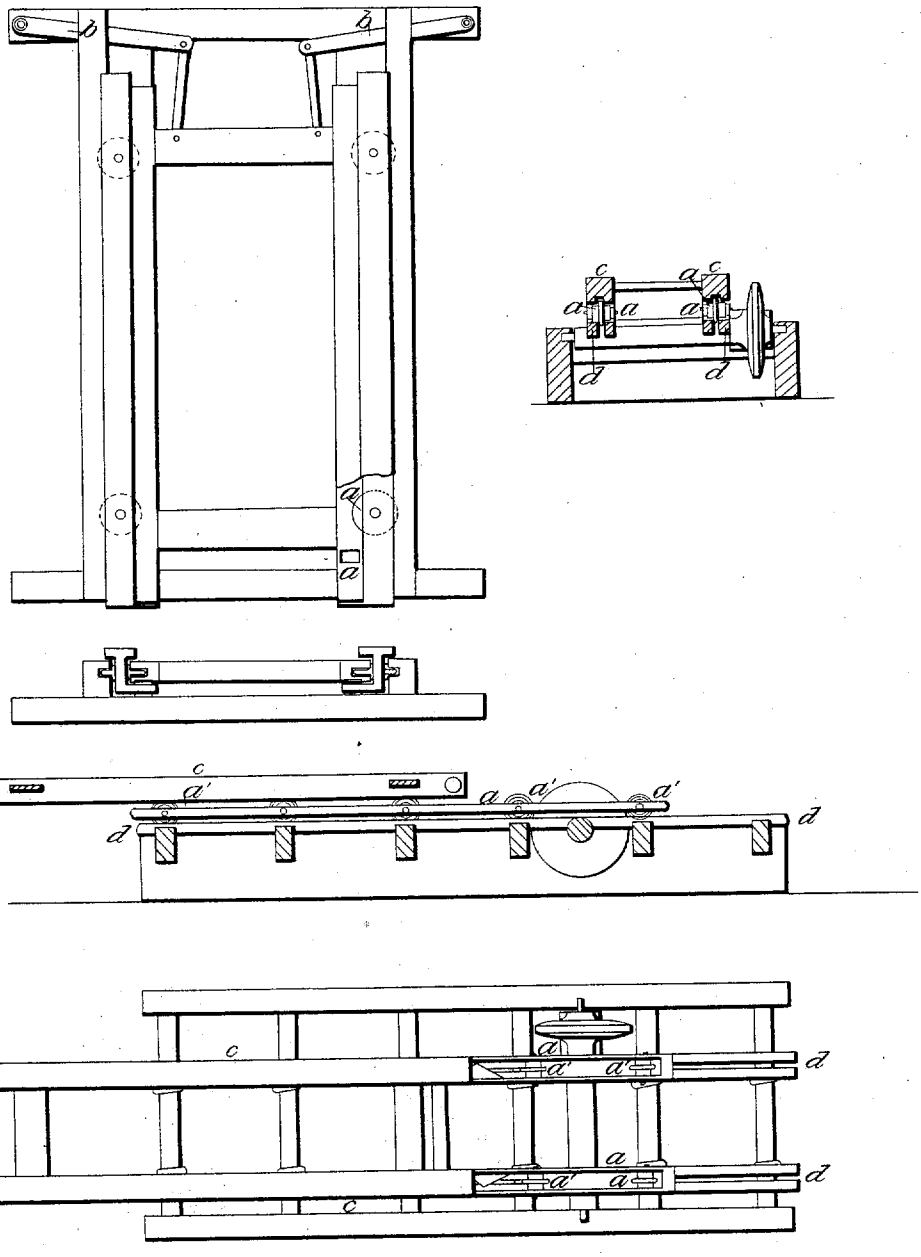
8748X

H. Gordon,

Reciprocating Saw Mill.

Patented Apr. 8, 1835.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

8748X April 8, 1835

April 8. 1835

Henry Gordon, of Liberty Township, Pennsylvania

Letters Patent.

The schedule referred to in these Letters Patent and making part of the same, containing a description in the words of said Henry Gordon himself of his improvement in the saw mill carriage

To all to whom it may concern,

Be it known that I Henry Gordon of Liberty Township, Adams County, Pennsylvania, have invented an improvement in the saw mill carriage by means whereof it is made to move with less friction than heretofore; which invention is applicable also to sliding Bridges as well as to other parts of Machinery of various kinds in which there is a similar traversing motion and I do hereby declare that the following is a true and exact description thereof

I make friction rollers which are so constructed and arranged that they serve at the same time to lessen friction and to check the tendency to lateral motion in a saw mill carriage, sliding bridge, or other similar article For this purpose I make any required number of rollers which turn upon pins or rods that pass through them & are fixed into the parallel cheeks or slips of wood in such a way that the rollers will turn with perfect freedom, these rollers have their circumference projecting above and below the cheeks, so that when placed upon a platform or straight surface they will touch it, and that a saw mill carriage or other similar article placed upon them will rest its whole weight upon the rollers — In order to check the tendency to lateral motion I sometimes form a projecting fillet round the middle of each roller and make a groove along the top

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and also in the under side of the carriage below the carriage & adapted to receive the above named fillet.

Instead of a fillet, I sometimes turn a groove in the middle of each roller and form a fillet or tongue upon the lower side of the carriage and the upper side of the ways, which tongue fits into the groove formed around the rollers. Rollers of this kind may be made of hard wood cast iron or other material of sufficient strength,

I have said that this invention is applicable to parts of machinery other than saw mill carriages and sliding Bridges, and I will here particularly mention that I contemplate applying it between a saw mill frame and the fender posts, In this case the rollers and the cheeks between which they are placed will be sustained by a segment or arm above them vibrating upon a centre and moved by the motion of the saw frame in such a way as to correspond precisely with the motion of the rolley,

What I claim as my invention is the application of friction rollers formed as herein described, for the purpose of checking the tendency of lateral motion in saw mill carriages, sliding Bridges and other similar structures and also the application of friction rollers either with or without grooves, and fillets to saw mill frames for the purpose described such rollers not being fixed either into the saw frames, or fender posts, but working up and down between them,

Henry Gordon

Witnesses
Thos. Williams
C. F. Burckhalter

Exd.
W.J.C.

(540 words