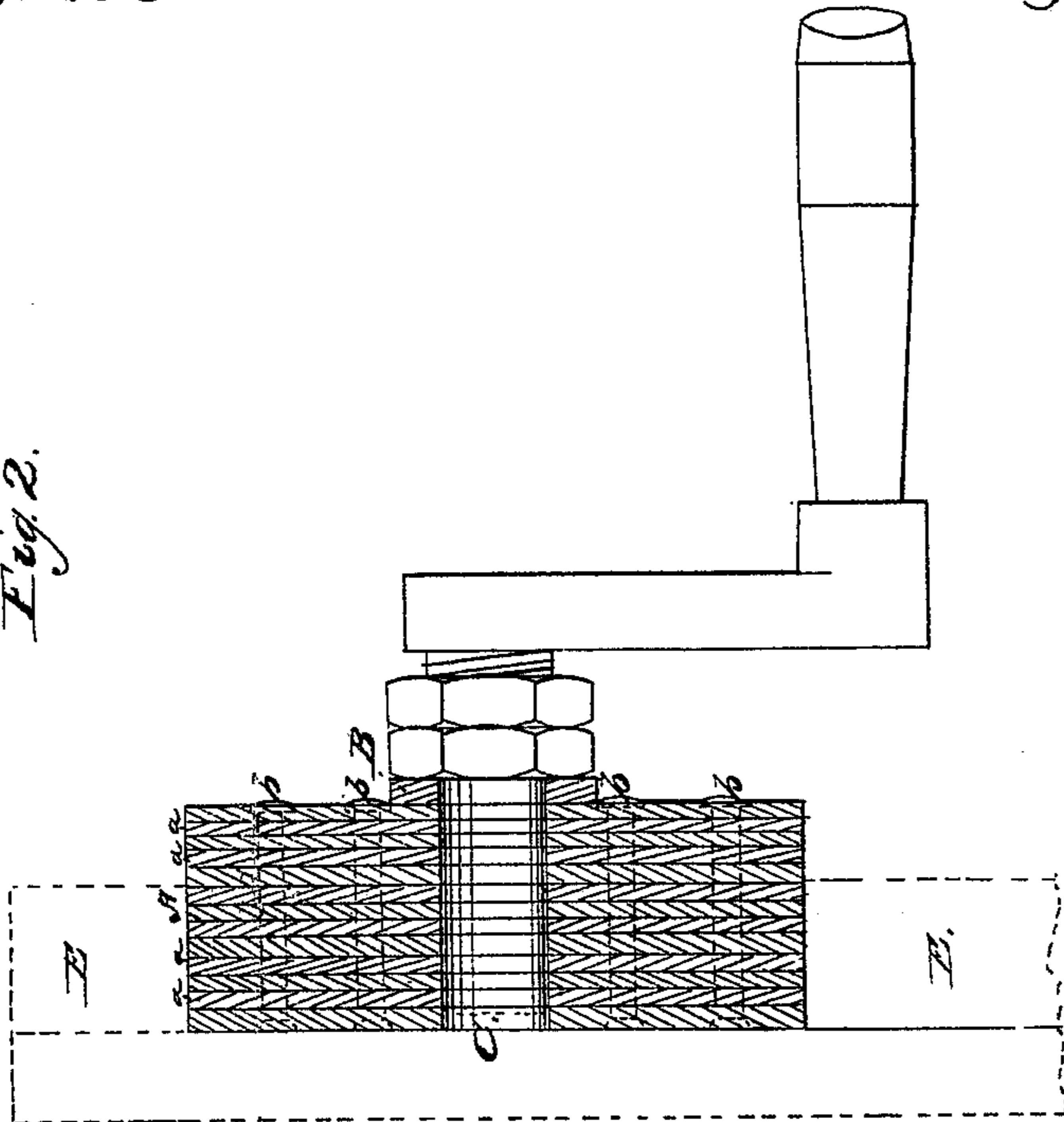
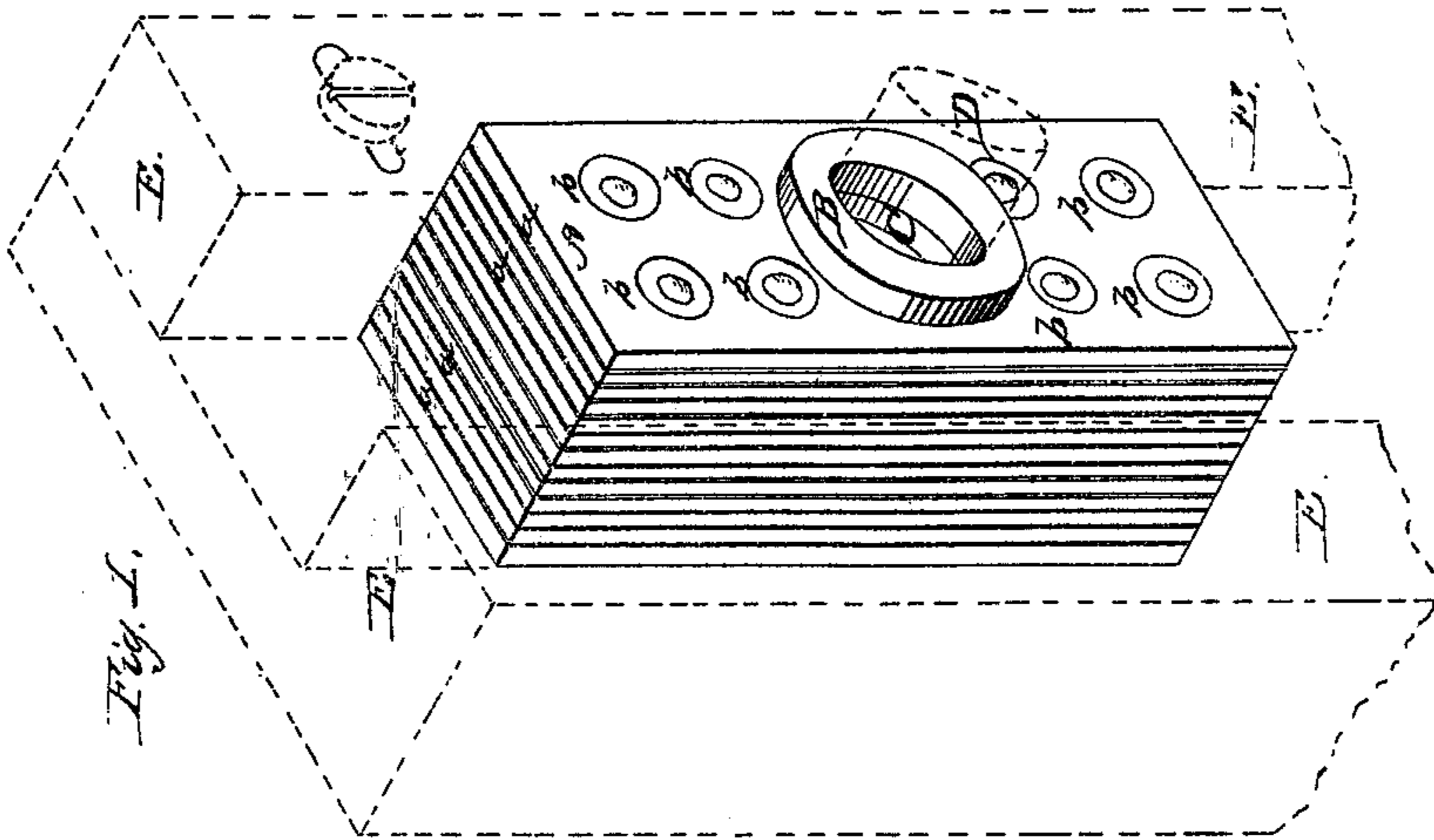


*A. P. Barlow.*  
*Reciprocating Saw Mill.*  
*No. 91,200. Patented Jun. 15, 1869.*

*Fig. 2.*



*Fig. 1.*



*Witnesses.*  
*Henry V. Tyger*  
*James J. Clyde*

*Inventor.*  
*A. P. Barlow*  
*By N. Crawford attorney*

# United States Patent Office.

ASHBEL P. BARLOW, OF KALAMAZOO, MICHIGAN.

*Letters Patent No. 91,200, dated June 15, 1869.*

## IMPROVEMENT IN SLIDE-BLOCKS FOR MULEY-SAW MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, ASHBEL P. BARLOW, of Kalamazoo, in the county of Kalamazoo, and State of Michigan, have invented a new and improved Slide-Block for Muley and Gang-Saw Mills; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of this invention is to obtain a slide-block for saw-mills that will be cheaper, lighter, and more durable than what has heretofore been used for such purpose; and

It consists in making the slide-block of raw hide, or untanned skins of animals.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

Figure 1 is a perspective view of the slide-block, with adjustable slide shown in red lines.

Figure 2 is a section of the same, showing the construction of the block, and the connection of the block with the noddle-pin and rock-shaft of saw-bar.

Many attempts have been made to substitute other material for steel, other metals, or their compounds, in their use as slide-blocks in saw-mills, such as wood, leather, and some species of stone; but all such attempts have failed until my invention was successfully brought into use; and the advantages are, that it is lighter than metal, less liable to break in use, and will wear as long, with less attention in keeping it lubricated, which, in the aggregate, makes it a cheaper and better slide-block than metal, wood, or other material, and it can be used wherever metal or other material can, whether in muley-blocks and single saw, or in gangs, or, if a reciprocating sash-frame is used, the wearing-surfaces may be faced with raw hide on both the sash-frame and fender-posts, or their substitutes.

A, in the drawings, is the slide-block, made from several thicknesses of hide, as shown at *a*, figs. 1 and 2.

These layers *a* of the raw hide are placed upon each other until the pile is sufficient to make the block, when immense pressure is brought to bear upon the

same, and press the layers of raw hide together, so that they will firmly adhere to each other, when holes are then bored through the block, and rivets or screw-bolts *b* are inserted, and are riveted or screwed down, to hold the layers of raw hide to the point at which they have been compressed.

A hole, C, is then centrally made through the block, in which noddle-pin D of the rock-shaft is to be placed, as seen in red lines in figs. 1 and 2.

B is a raw-hide washer, that is interposed between the adjusting-nuts or pin D and the block; which will receive the wear of the nut, instead of the block itself, as such washer can be replaced at small cost and little expense whenever worn so as to be unfit to longer resist the side-strain upon the block.

When the block is so constructed, and pin D is inserted in the central hole C, the block is placed between the adjustable slides E, as seen in red lines in figs. 1 and 2 of the drawings.

These blocks may be of any desired shape that will work between slides E, and they are hung upon a round noddle-pin, so as to readily permit them to change their position and direction, and accommodate guide-ways that have not a continuous straight direction their entire length, such as have been heretofore patented to myself, and having an angle in their direction, or, if used in connection with circular guide-ways, the sides of the block must also conform to the curvature of the guide-ways, or they may be round, their diameter being equal to space between the guides.

I am aware that raw hide has been used, in light machinery, for bearings of journals, and for making of friction-rollers. Such use is not my invention, and I do not claim it, nor do I claim for any of the devices herein described, and shown in red lines; but having thus described my invention,

What I desire to secure by Letters Patent, is—

The slide-block, for saw-mills, above described, when made of raw hide, in the manner and for the purposes substantially as described.

ASHBEL P. BARLOW.

Witnesses:

F. A. BOOHER,  
G. P. DOUN.