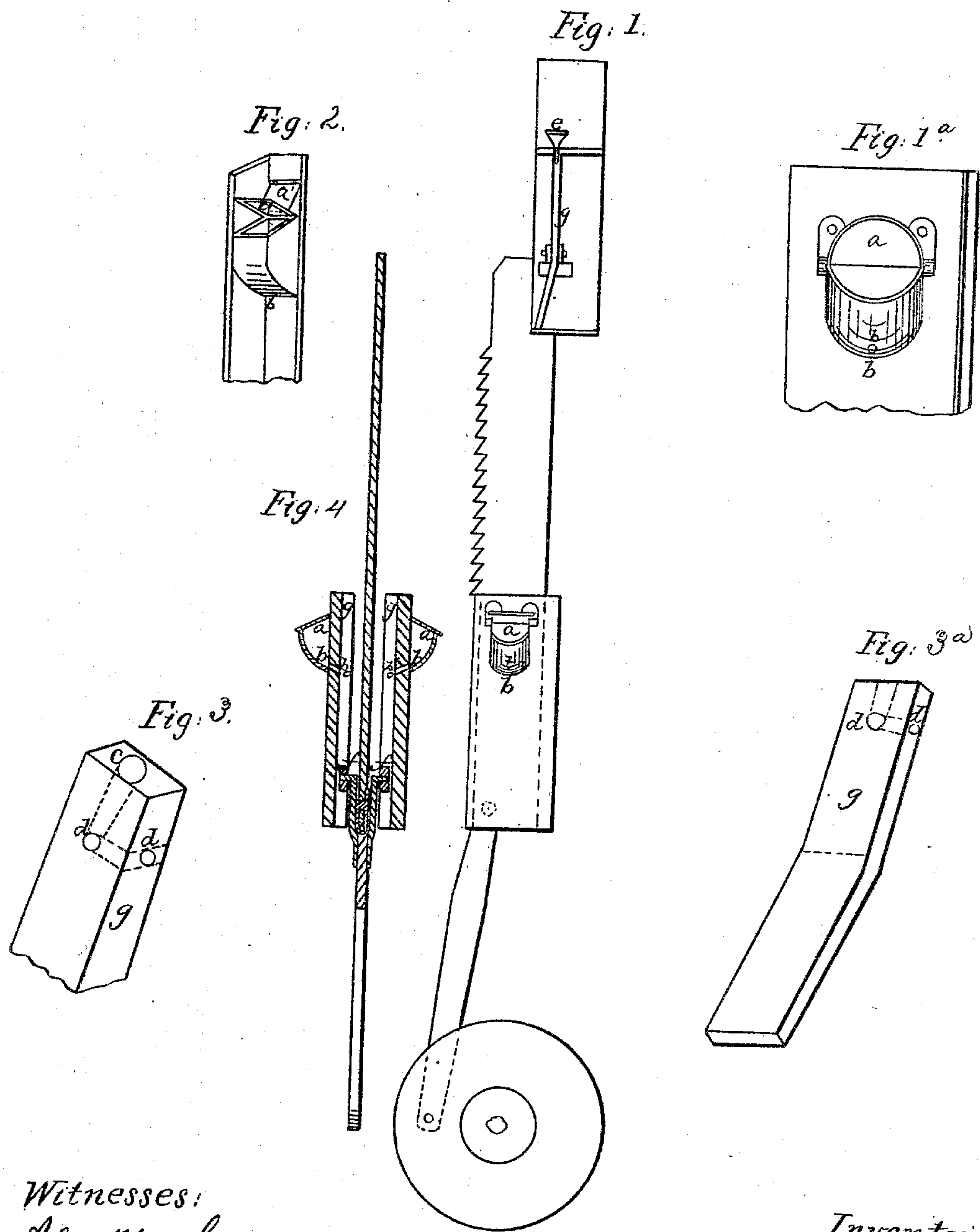


A. P. BARLOW.
 MODE OF LUBRICATING THE SLIDES OF MULEY SAWMILLS.
 No. 75,835. Patented Mar. 24, 1868.



Witnesses:
 Alex Mahon
 J. M. Smith.

Inventor:
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UNITED STATES PATENT OFFICE.

ASHBEL P. BARLOW, OF CLAREMONT, NEW HAMPSHIRE.

IMPROVEMENT IN MODE OF LUBRICATING THE SLIDES OF MULEY-SAW MILLS.

Specification forming part of Letters Patent No. 75,835, dated March 24, 1868.

To all whom it may concern:

Be it known that I, ASHBEL P. BARLOW, of the town of Claremont, in the county of Sullivan and State of New Hampshire, have invented a new and useful Improvement in the Lubricating of Muley-Saw Mills, by means of which I am enabled to use tallow, lard, suet, or any other lubricating ingredients which are hard and require melting, instead of lubricating-oils, which is a great saving in expense; 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.

To enable others to make and use my invention, I will herein give a full description thereof.

The nature of my invention consists in providing the lower muley heads and slides with tallow-boxes and tight lids, to keep the dirt and sawdust out of the lubricating ingredients, and, at the same time, allow it to pass to the wooden block connected to the cross-head, and holding the top of the pitman, as shown in Figure 4, letters *ff*.

Fig. 2 shows the manner in which I construct and apply the boxes to the lower slides. Letter *a* shows a double or tight single lid to the box, so as to keep all dust and dirt out. Letter *b* shows holes drilled through from the opposite side from the box, so as to allow the lubricating substance to pass through to the blocks, as shown at letters *b' b'* in Fig. 4, when they shall become dry and heated, or the slides become so by the rapid friction and hard pressure of the blocks *ff* upon them while in operation. When such is the case, (which often happens if the slides are not well lubricated,) the tallow, or whatever may be used for the purpose, becomes melted, and runs through the holes *b*, and the blocks take it up, and distribute it over the slides. The advantages gained thereby are, that the operator has but to fill his boxes, and then the lubrication is always ready when it is needed, besides keeping the machine so well lubricated that it saves a great wear upon the machine, as well as power; also, much time of the operator, as well as the extra expense of using refined lubricating-oils.

Figs. 1 1^a show the form and manner of applying the boxes to the sides of muley-heads. These also are furnished with tight lids, for the same purpose as before described, and have holes drilled through the sides, opposite the box, close to the bottom of the chamber, as shown at letters *b' b'*, Fig. 4.

Figs. 3 3^a show the top section of the upper guides, with holes drilled from the top downward, and forming a chamber as large as the nature of the slide will admit, and as deep as is necessary for the purposes herein specified, as shown at letter *c*. Letters *d d* show small holes drilled through the front side of the slide, as well as at the edge, the back needing no more lubricating than it will derive from the hole in the edge.

The advantages gained are as follows: I am enabled to use much thinner saws by this method of lubricating the upper guides, therefore saving much lumber from being wasted in the saw-kerf. The reasons are as follows, that, when the guides are kept well lubricated, the saw will not buckle in its upward motion, thereby avoiding the danger of breaking a thin saw, as would be the case should the guides *g* become dry, as they oftentimes do when the operator neglects to oil them; and by attaching a common oil-cup, *e*, to the chamber, at the top of the guide, I can put as much oil in it at a time as will last a much longer time, and avoid all danger of neglect in the operator.

What I wish to claim, and secure by Letters Patent, is—

1. The guides *g*, chambered and perforated, as shown at *c* and *d*, in combination with the lubricating-box *a*, constructed and operating substantially as described.

2. The guides *g* and perforated muley-head, in combination with the lubricating-box *a*, all constructed as herein described, for the purposes set forth.

ASHBEL P. BARLOW.

Witnesses:

EDM. F. BROWN,
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