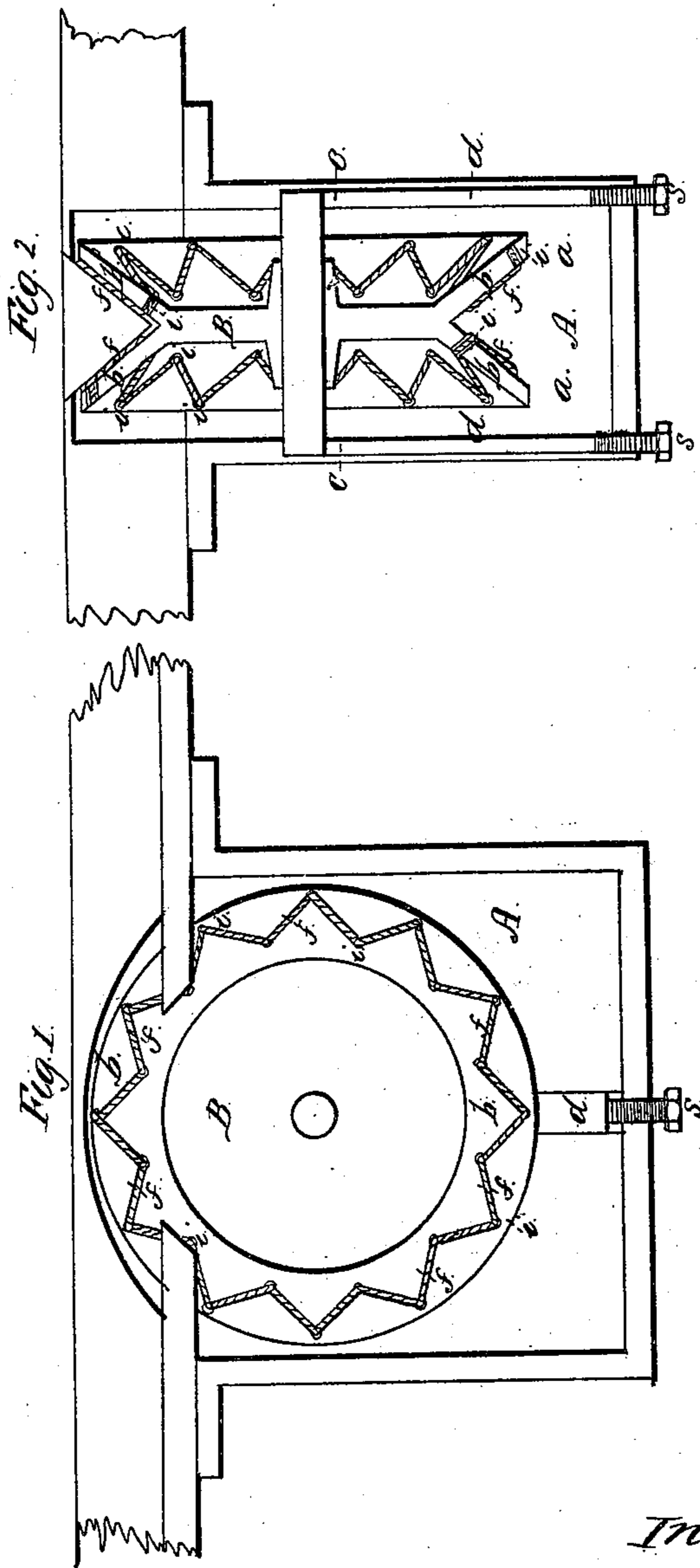


H. Thomas,

Lubricator.

No. 87,079.

Patented Feb. 16, 1869.



Witnesses.

Fred. Haynes

J. McComb

Inventor

Hugh Thomas



HUGH THOMAS, OF NEW YORK, N. Y.

Letters Patent No. 87,079, dated February 16, 1869.

IMPROVEMENT IN LUBRICATOR

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, HUGH THOMAS, of the city, county, and State of New York, have invented a new and improved Lubricator for Planers and other Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, and in which—

Figures 1 and 2 represent sectional views of my improved lubricator for planers and other machines, taken at right angles to each other.

Similar letters of reference indicate corresponding parts in both figures.

This invention is more especially designed for the beds of iron-planers, but is also applicable to the reciprocating parts of other machines; and

It consists in the providing of the ways of iron-planers and other machines with lubricating-boxes, having suspended therein rollers with oil-retaining peripheral surfaces, conforming to the slides, whereby the passing over of the slides will cause the rotation of the rollers, by the friction of contact, and the lubrication of the slides by the oil which the rollers take up from the boxes.

In order that others may understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

A is an oil-box of rectangular or other suitable formation, and designed for attachment, by screws or otherwise, to the under side of the bed of an iron-planer, and under a suitable opening provided therein, communicating with the V-way thereof, so that said box may be in open communication with said V-way.

This box A may be constructed of cast-iron or other metal, and is designed not only for containing oil or other lubricant, but also for reception of a wheel or roller, B, of metal or other material, and is constructed in two sections or parts, *a a*, thereby to provide for the insertion of the said roller. The lubricating-material may be supplied to this box from time to time through the said opening in the V-way, over the top of the box, and through which opening the oil-retaining material, with which the periphery of the wheel or roller is supplied, protrudes sufficiently to effect a slight engagement

with the V-slide, as it passes over it during the working of the machine.

The wheel or roller B is suspended within the box A, upon bearings *c c*, provided upon the upper end of vertically-arranged sliders *d d*.

Said bearings *c c* and sliders *d d* are arranged to slide perpendicularly within grooves in the sections *a a* of the box, and are provided with a vertical adjustment, by means of adjusting-screws *s s*, so that, by the forward or backward turning of the said screws, the roller may be made to sustain a greater or less pressure of the V-slide while it is being passed over.

This roller B has its periphery constructed to conform transversely to the bearing-surface of the V-slide, and is provided with a partial covering, *f*, of cotton yarn or other fibrous material, susceptible of soaking up and retaining oil or other liquid lubricant, so that the oil so retained may be transferred therefrom to the bearing-surface of the V-slide while the said roller is being rotated against the same.

This partial covering *f* may be secured upon the peripheral surface of the roller by being laced back and forth, in a zigzag manner, through holes, *i*, made in the flange *b*, as represented in the drawing, or by other suitable means, whereby the desired end may be attained.

Any desirable number of these lubricators may be provided along the V-ways of the machine, so as to insure an efficient and uniform lubrication of the parts.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A lubricating-box for the reciprocating parts of machinery, fitted with an oil-supplying roller, the periphery of which conforms to the transverse section of the reciprocating parts, substantially as herein described.

2. In combination with the roller of such lubricating-box, the yarn or fibrous material, laced through holes therein, substantially as herein described.

HUGH THOMAS.

Witnesses:

FRED. HAYNES,
J. W. COOMBS.