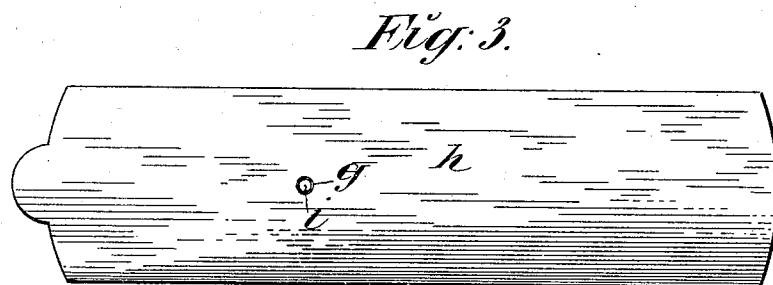
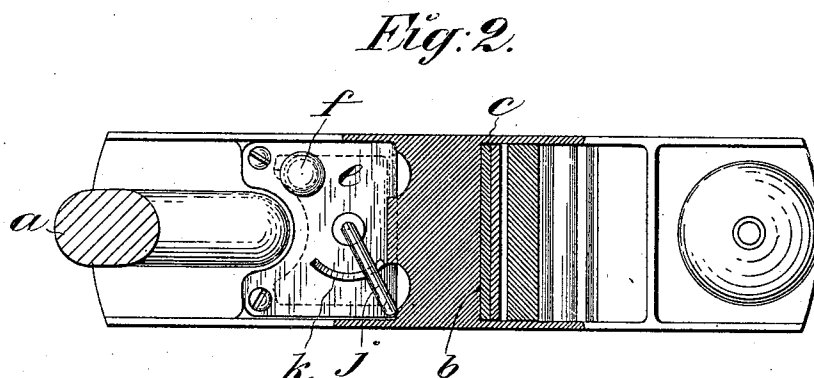
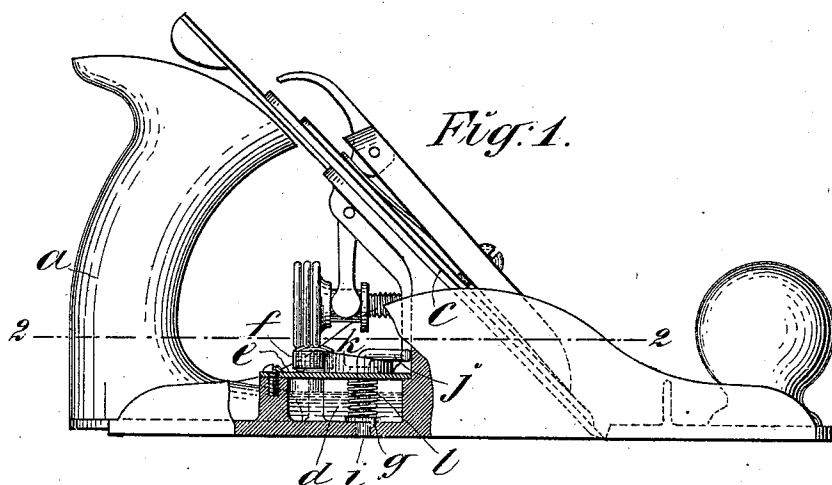


(No Model.)

J. WITZELL.
PLANE LUBRICATING APPARATUS.

No. 579,911.

Patented Mar. 30, 1897.



WITNESSES:

F. H. Wiman
Ch. J. Morgan

INVENTOR:

Johan Witzell

By

A. P. Thayer

Attorney.

UNITED STATES PATENT OFFICE.

JOHAN WITZELL, OF NEW YORK, N. Y.

PLANE-LUBRICATING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 579,911, dated March 30, 1897.

Application filed June 13, 1896. Serial No. 595,434. (No model.)

To all whom it may concern:

Be it known that I, JOHAN WITZELL, a citizen of the United States, and a resident of New York city, in the county and State of New York, have invented certain new and useful Improvements in Plane-Lubricating Apparatus, of which the following is a specification.

My invention consists of improved means of periodically supplying lubricating-oil to the working face of the plane, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of a wood-plane with a part in section, showing the application of my improved lubricating apparatus. Fig. 2 is a horizontal section of the plane on line 2 2, Fig. 1. Fig. 3 is a plan of the plane inverted.

Between the handle *a* and the seat *b* of the plane-bit *c* I provide an oil-reservoir *d* in any approved way with a suitable cover *e*, said cover having a plugged filling-aperture, as indicated at *f*, and I provide a lubricating-passage *g* through the bottom of the reservoir to the working face *h* of the plane with a valve *i* to open and close the same, said valve being on the lower extremity of a vertical stem *j*, extending up through the cover and thereat provided with a horizontal lever-arm *k*, normally extending from the stem located midway between the sides of the plane or thereabout to the right-hand side and inclined forward relatively to the lengthwise direction of the plane, about as represented in Fig. 2, so that it is convenient to engage the arm with one of the fingers of the hand holding the plane by the handle and working the plane and pull the arm backward to open the valve, which being thus pulled back is made to raise and open the valve by the curved inclined way *l*, which I have provided on the cover *e* for such effect.

Within the reservoir and between the cover

e and the valve-top I have provided a coiled spring *l*, which presses downward on the valve and closes it when the arm *j* is released by the operator, the declivity of the way *k* being such that pressure of the spring will cause the arm to slide on it freely.

It will be seen that with my improved apparatus the supply of oil can be controlled at will and without interrupting the work. It will also be seen that the location of the lubricator between the seat of the plane-bit and the handle is more favorable for uniform lubrication of the working face throughout its entire length than when located in the knob forward of the bit. Besides the knob so utilized is not as reliable and serviceable for withstanding the hammer-shocks for jarring the bit slack as when solid and the shocks of the hammer are liable to force out spurts of oil.

I claim—

In a plane-lubricator, the combination of the reservoir located between the seat of the plane-bit and the rear handle of the stock, and having a passage communicating with the working face of the plane, the valve seated in said passage and having a stem extending upward through the cover of the reservoir, spring arranged between the cover and the head of the valve for closing said valve, the inclined way on the cover of the reservoir, and the arm of the valve-stem ranging over said inclined way in the relation to the handle for opening the valve by a finger of the hand gripping said handle substantially as described.

Signed at New York city, in the county and State of New York, this 11th day of May, A. D. 1896.

JOHAN WITZELL.

Witnesses:

CHARLES BRETTELL,
GEORGE BRETTELL.