G. E. HASZINGER & S. J. RONAN.

LUBRICATOR FOR SAW BLADES.

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930,960. Patented Aug. 10, 1909.

Fig. 1.

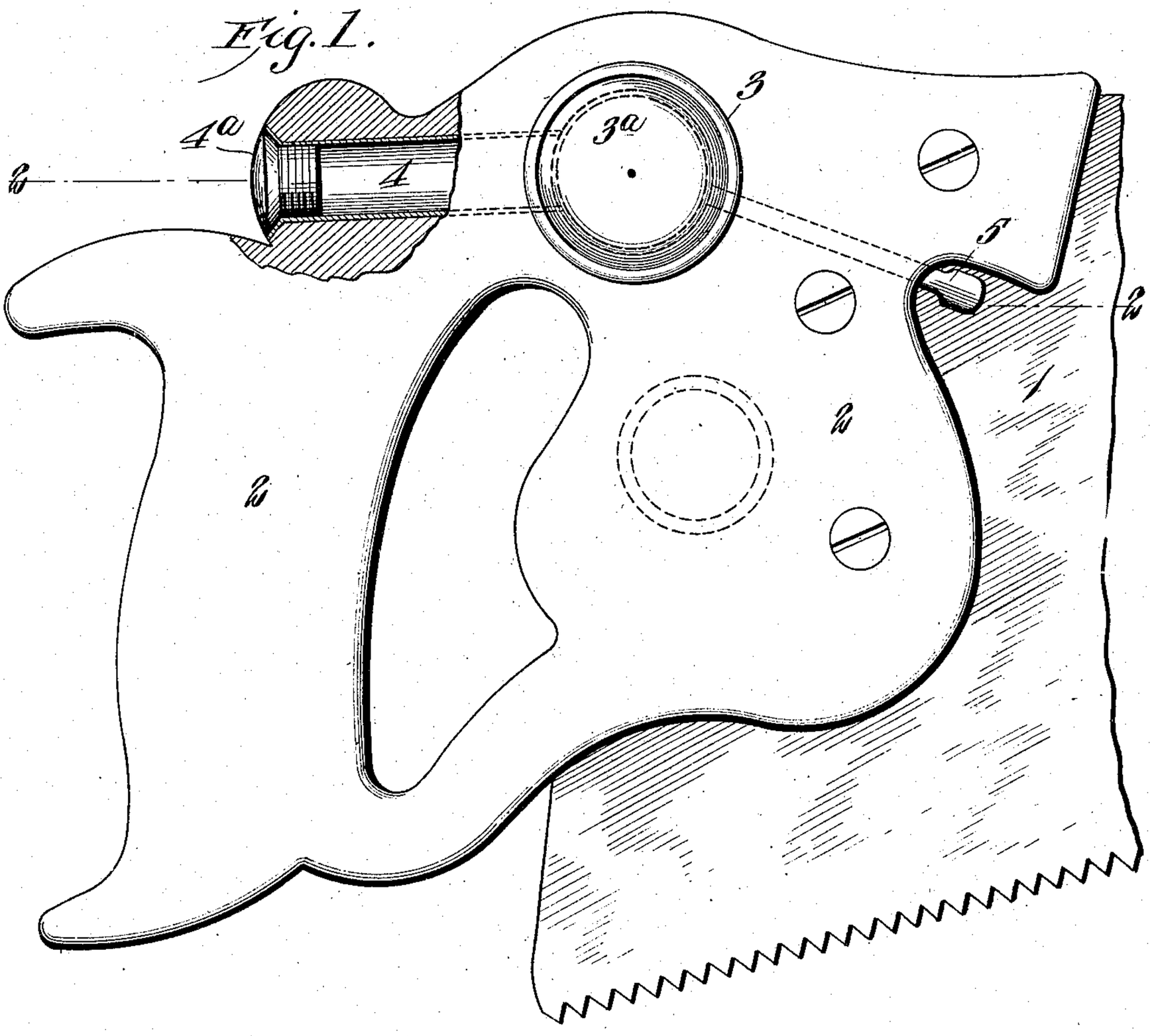


Fig. 2.

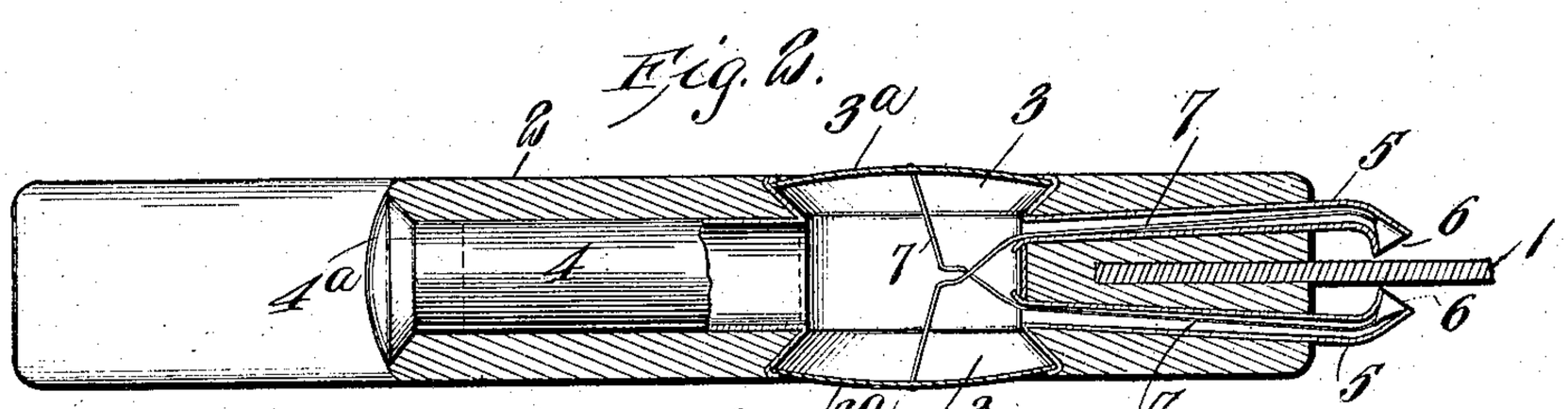
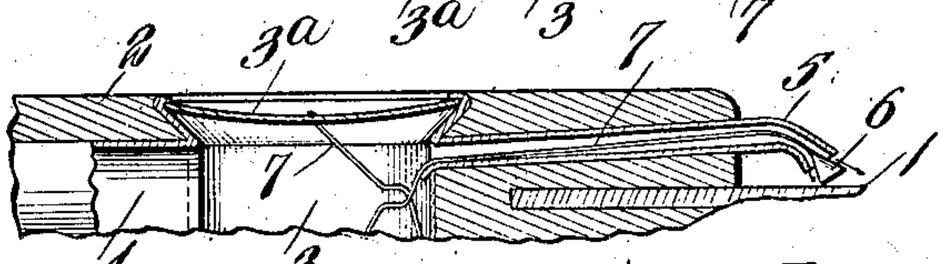


Fig. 3.



WITNESSES

E. M. Callaghan

Amos W. Hart

INVENTORS

GEORGE ERNEST HASZINGER

STEPHEN JOSEPH RONAN

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE ERNEST HASZINGER AND STEPHEN JOSEPH RONAN, OF GREENVILLE, MISSISSIPPI.

LUBRICATOR FOR SAW-BLADES.

No. 930,960. Specification of Letters Patent. Patented Aug. 10, 1909.

Application filed January 5, 1909. Serial No. 470,789.

To all whom it may concern:

Be it known that we, GEORGE ERNEST HASZINGER and STEPHEN JOSEPH RONAN, citizens of the United States, residing at Greenville, Washington county, State of Mississippi, have invented an Improvement in Lubricators for Saw-Blades, of which the following is a specification.

The object of our invention is to provide for saw-blades, more especially hand-saws, a lubricating attachment which may be easily operated when required, whereby lubricant may be discharged at will upon the saw blade so that it is enabled to make a narrower and smoother kerf with less friction. A saw blade thus lubricated, requires less set or spread of the teeth, and will do closer smoother work with the application of less force.

The details of construction, arrangement, and operation of parts are as hereinafter described and illustrated in the accompanying drawing in which—

Figure 1 is a side view—part being broken away—of the handle and a portion of the blade of a hand-saw with our improved lubricating attachment applied thereto. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a view illustrating the operation of our lubricating attachment.

The hand-saw blade 1 is provided with a handle 2 which may be of the usual construction. Our lubricating attachment is composed of a drum-like lubricant-holder 3 having a filling-tube 4, and discharge-tubes 5 provided with stoppers 6. The holder 3 extends through the handle 2 transversely, and is provided with slightly convex ends 3^a, which are elastic to the degree required to enable them to be compressed, or pressed inward, as shown in Fig. 3. The discharge-tubes 5 extend from the holder 3 forward, and are arranged on opposite sides of the blade 1. The nozzles of the same are turned inward toward the blade, and provided with conical stoppers 6, which are attached to wires 7 that are in turn connected with the respective heads 3^a of the holder. It will be seen in Fig. 2, that the wires 7 cross each other within the holder and are formed at that point with lateral bends or kinks, which provide sufficient elasticity to enable the wires to hold the stoppers retracted within the tube nozzles, so as to close them effectively when the heads 3^a are in the normal position, that is to say, bulged or convex, as shown in Fig. 2. The filling-tube 4 is made of a considerable diameter so that it serves practically as an enlargement of the holder 3, or in other words enables a larger quantity of lubricant to be stored for use than would be practicable if the tube were simply large enough to serve as a filling duct. Its outer end is provided with a screw cap 4^a, which is enlarged and hollow and thus serves as an enlargement or extension of the filling-tube 4.

The practical operation of our lubricant attachment is as follows: It being assumed that the holder 3, together with its filling-tube and the discharge-tubes 5, is filled with oil, when it is desired to lubricate the saw, pressure is applied laterally on the heads 3^a of the holder, whereby they are pressed inward as shown in Fig. 3, by which movement the stoppers 6 are projected slightly from the nozzles of the discharge-tubes and lubricant caused, or allowed, to flow from the tubes upon the saw blade. Immediately upon the release of pressure on the heads of the holder, they resume the normal position shown in Fig. 2, by reason of their own resiliency, and the elasticity of the wires 7 aids in drawing the stoppers 6 firmly into the nozzles, or mouths, of the discharge-tubes 5 so that they are tightly closed against the escape of lubricant.

It will be seen that our improved attachment provides a convenient means for lubricating a saw blade whereby it is adapted to be used with less friction, and to make a narrower and smoother kerf, thus saving an appreciable amount of lumber in working up the same, and considerably lessening the labor of the operator.

It is obvious that the location or position of the holder 3 may be changed without seriously affecting the operation of the attachment as a whole. For example, the holder might be located at 8, as shown by dotted line, Fig. 1, and the other parts arranged as required for practical operation. When the device is located as shown in Fig. 2, the handle is preferably provided with a gullet of considerable depth, and the nozzles or discharge ends of the tubes 5 terminate therein as shown.

What we claim is:

1. A lubricating attachment for saw blades comprising a lubricant holder, a discharge-tube whose nozzle is adjacent to the saw blade, a stopper for such tube, and means for

connecting it with the ends of the drum-like holder which are elastic and thus adapted to be pressed inward, as shown and described.

2. The combination with a saw blade and handle, of a lubricant attachment comprising a lubricant holder proper having an elastic compressible head and a discharge-tube whose nozzle is in proximity to the blade, a stopper for the said tube and a spring wire connecting the stopper with the head of the holder and provided intermediately with a lateral bend whereby its elasticity is increased, as shown and described.

GEORGE ERNEST HASZINGER.
STEPHEN JOSEPH RONAN.

Witnesses:
W. K. GILDART,
B. V. GILDART.