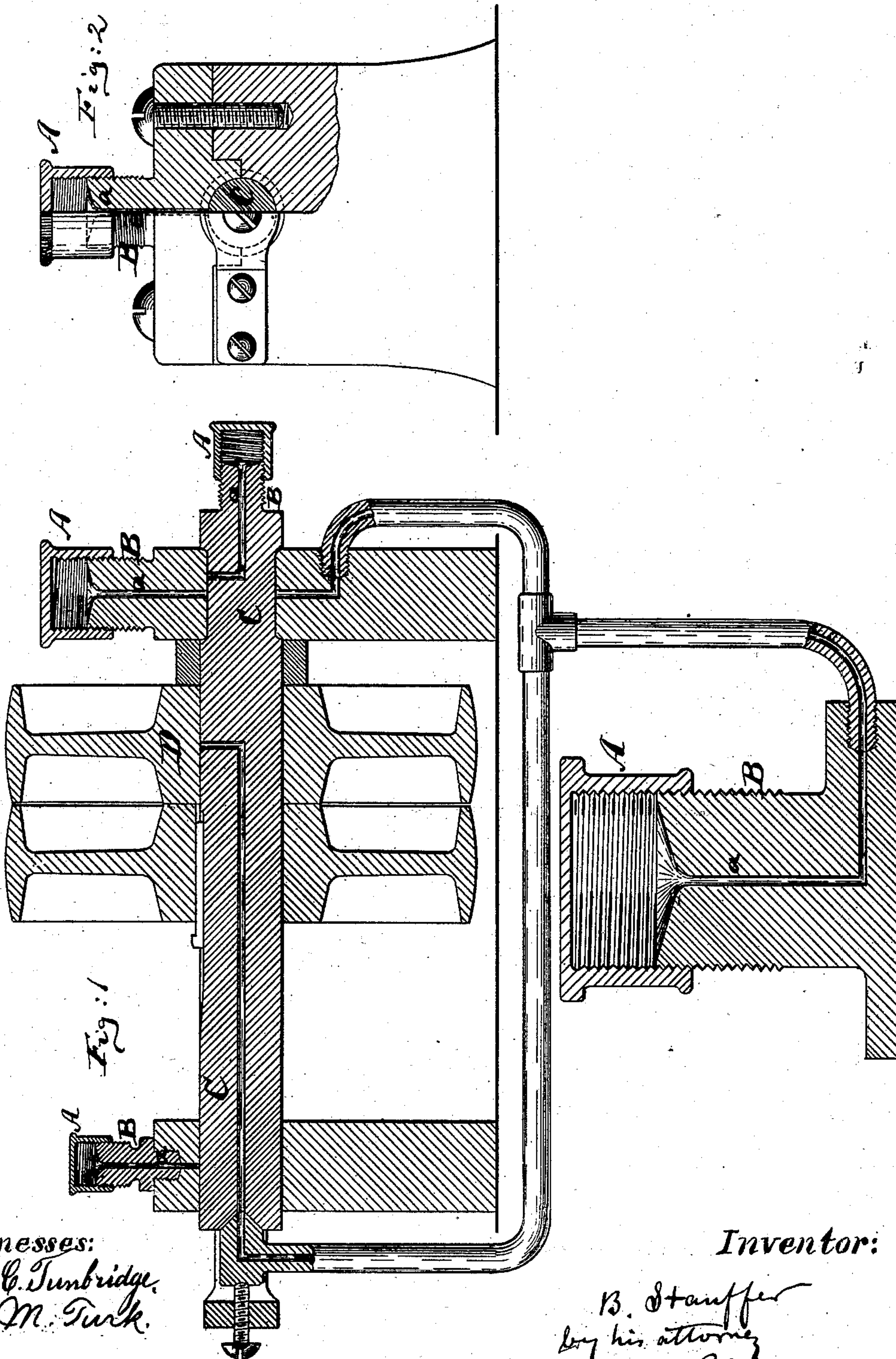


B. STAUFFER.
Lubricating Device.

No. 228,137.

Patented May 25, 1880.



Witnesses:
John C. Tunbridge.
H. M. Turk.

Inventor:
B. Stauffer
by his attorney
A. J. Bensen

UNITED STATES PATENT OFFICE.

BERNHARD STAUFFER, OF BERNE, SWITZERLAND.

LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 228,137, dated May 25, 1880.

Application filed February 17, 1880. Patented in England February 1, 1878, and in Germany February 5, 1878.

To all whom it may concern:

Be it known that I, BERNHARD STAUFFER, of Berne, Switzerland, have invented an Improved Lubricating Device, (patented for fourteen years in England by Letters Patent No. 427, dated February 1, 1878, and for fifteen years in Germany by Letters Patent No. 1,934, dated February 5, 1878,) of which the following is a specification.

Figure 1 represents a vertical longitudinal section of a shaft and its bearings provided with my improved lubricating device, the latter being shown in various positions. Fig. 2 is an end view, partly in section, thereof.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to a new apparatus for lubricating axle-bearings and other parts of machinery requiring lubrication.

It consists of a hollow cap containing a female screw-thread, in combination with a threaded perforated plug or block, which is adapted to receive the cap.

The apparatus is intended to be used with consistent lubricating substance, which is to be placed into the removable cap and applied through the channel of the plug to the parts of the machine which require lubrication.

In the drawings, the letter A represents the hollow screw-cap, being a hollow cylinder closed at the top and open at the bottom, and made with an internal screw-thread, as shown. This cap is adapted to be screwed upon a block or plug, B, having a corresponding male screw-thread. The block B contains a channel, *a*, which leads from its top to the shaft C, pulley D, or other device to be lubricated.

Suitable consistent lubricating material is put into the cap A, and said cap thereupon screwed upon the plug, and the lubricating matter is then forced to the proper place by gradually screwing down the cap.

The apparatus may be applied directly to the bearing to be lubricated, as shown at the upper part of Fig. 1, or placed at some distance therefrom, as shown at the lower part of Fig. 1.

The main advantage of this apparatus over those heretofore used is, that the engineer is

not obliged to apply the consistent lubricating substance directly to the machinery, which operation on some kinds of machinery, when in motion, is exceedingly dangerous—frequently impossible. With my apparatus the engineer is enabled, by carrying the cap A to a convenient place, to have the same filled with consistent lubricating substance, and needs then but apply the cap in place.

The invention cannot be used with liquid lubricants.

I am aware that oil-cups have already been provided with hollow screw-caps—as is, for example, shown in Patent No. 110,093. This I do not claim.

It will be perceived that under the construction shown by me there is no oil-cup placed on the channel *a*, excepting the one which is formed within the cover A, so that if said cover is filled with stiff lubricant and screwed down over the channel the lubricant will immediately enter the mouth of the channel and be actually squeezed into the same; whereas in the former device, even if a stiff lubricant were placed into the hollow cap, it would remain in the cap, as a cavity greater than the cap, and therefore not liable to be filled, was directly underneath it. In other words, there is no provision in the former device for conveying a stiff lubricant into the channel.

I claim—

The lubricating apparatus adapted for consistent lubricating substance, and constructed of a fixed plug, B, having external screw-thread and central channel, *a*, said channel reaching to the top of the plug, in combination with the hollow screw-cap having internal screw-thread and adapted for direct application to the plug in such manner that the consistent contents of the cap will, when the same is applied to the plug, be squeezed directly into the channel *a*, substantially as herein shown and described.

This specification signed by me this 13th day of January, 1880.

BERNHARD STAUFFER.

Witnesses:

ALBERT GARRAUX,
N. BIGLER.