

W. J. FAUL.
Lubricating Device.
No. 214,640. Patented April 22, 1879.

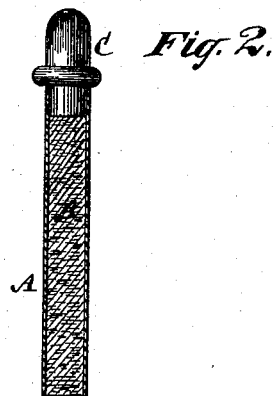
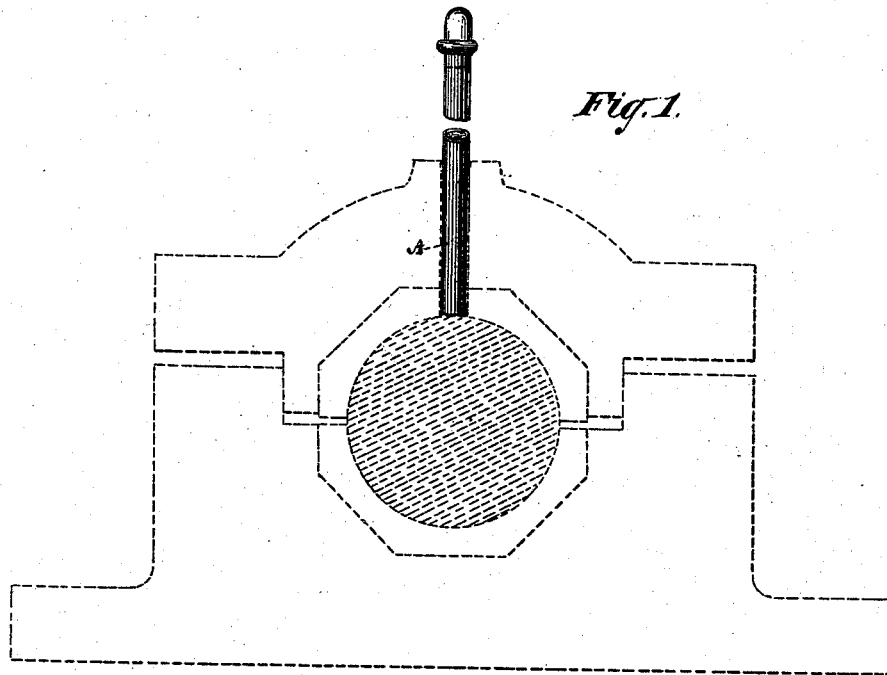


Fig. 3.



witnesses

John Becker
and
Edw. Haynes

Inventor

William J. Faul
by his Attorneys
Brown & Brown

UNITED STATES PATENT OFFICE.

WILLIAM J. FAUL, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS RIGHT
TO GEORGE KOETHEN, OF SAME PLACE.

IMPROVEMENT IN LUBRICATING DEVICES.

Specification forming part of Letters Patent No. **214,640**, dated April 22, 1879; application filed
October 12, 1878.

To all whom it may concern:

Be it known that I, WILLIAM J. FAUL, of the city and State of New York, have invented certain new and useful Improvements in Lubricating Devices, of which the following is a description, reference being had to the accompanying drawings, forming part of this specification.

This invention consists in a lubricating-cartridge for journal-boxes and other bearings, composed of a shell or case of paper, cloth, or other material similarly capable of reduction by friction, and a filling of grease, or other lubricating material or compound which will retain a firm consistency or solidity during ordinary atmospheric temperatures, but will readily soften or fluidize on its surface exposed to wear by friction. This cartridge, which may be left open at its one end, is fitted at its opposite end with a weight, which may be in the form of a stopper, and which serves to assist the self-feeding action of the cartridge when applied to the hole in the journal box or bearing within which the lubricating-cartridge is entered.

Such a lubricating-cartridge forms a new article of manufacture which is cheap, and may be easily handled and readily applied to any journal box or bearing having an oil-hole in it capable of allowing of the free descent or longitudinal movement of the cartridge shell or case and its lubricating-filling down to or against the surface to be lubricated, as said case and its filling are jointly reduced by wear or friction at the lubricating end of the cartridge.

In the accompanying drawings, Figure 1 represents an exterior broken longitudinal view of a lubricating-cartridge constructed in accordance with my invention, and as applied to a journal-box with shaft therein, said journal-box and shaft being shown in dotted lines. Fig. 2 is a longitudinal section of the lubricating-cartridge, and Fig. 3 a transverse section thereof.

A indicates a cartridge shell or case, preferably of cylindrical form in its transverse section, and of a length which greatly exceeds its diameter. Said case is filled to within a suitable distance of one of its ends with grease in a solid state, or other lubricating material or compound, B, of a like firm consistency

under ordinary atmospheric temperatures, but which will soften or fluidize on its surface exposed to wear by friction—as, for instance, by the heat generated by contact of said lubricating material with the surface of a revolving shaft or other moving body.

The case A itself is made of paper or other material capable of a rapid reduction by friction, so that when the cartridge shell or case is applied at its filled end to the surface of the body to be lubricated the endwise reduction of the case, consequent on the friction to which it is exposed, will take place jointly with that of the grease or solid lubricating-filling in the case. Thus cloth, tin-foil, and various other substances may be used in the place of paper as the material of which to form the case, and which substances are the equivalents of paper when they are capable of joint reduction with the grease, as the cartridge-shell and lubricating-filling therein are borne or moved in common against the surface to be lubricated. This distinguishes my lubricating-cartridge from a mere tube of metal having a filling of grease which is separately forced or fed through the tube, and not dependent upon the wear of the end of the latter to keep up the supply of lubricating material.

C is a stopper, which is fitted to freely enter the unfilled end of the cartridge-case, and is constructed to form a weight, to assist the self-feeding action of the lubricating-cartridge down to or against the surface to be lubricated; but said weight or stopper is not a follower to the lubricating material independently of the cartridge-case.

I claim—

1. A lubricating-cartridge composed of a shell or case, and a solidified filling of grease or other lubricating material or compound, whereby when said cartridge is used both its filling and case are fed in concert toward or against the surface to be lubricated, substantially as specified.

2. The combination of the paper cartridge shell or case A, the solidified lubricating material B, and the weight C, essentially as described.

WM. J. FAUL.

Witnesses:

OWEN PRENTISS,
T. J. KEANE.