

SMITH A. SKINNER.

Improvement in Oil-hole Covers for Lubricators.

No. 120,677.

Patented Nov. 7, 1871.

Fig. 1.

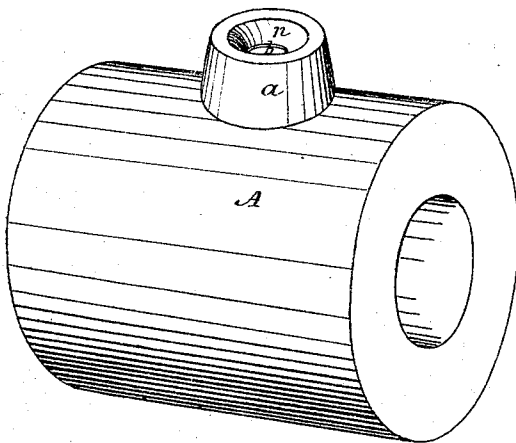


Fig. 2.

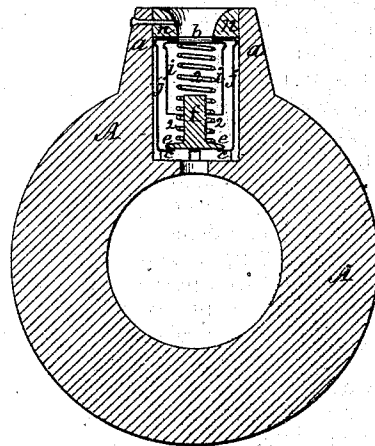
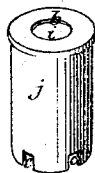


Fig. 3.



Witnesses.

Jas. D. Patten
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Inventor.

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UNITED STATES PATENT OFFICE.

SMITH A. SKINNER, OF HOOSICK FALLS, NEW YORK.

IMPROVEMENT IN OIL-HOLE COVERS FOR LUBRICATORS.

Specification forming part of Letters Patent No. 120,677, dated November 7, 1871.

To all whom it may concern:

Be it known that I, SMITH A. SKINNER, of Hoosick Falls, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Oil-Hole Covers or Protectors, more especially for harvesting-machines, but applicable to other machinery; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents in perspective the plan of applying one of the protectors to an oil-box or journal-bearing. Fig. 2 represents a vertical transverse section through the same. Fig. 3 represents in perspective an exterior view of the cover or protector separated from the box or bearing.

I am aware that several forms of oil-hole covers or protectors have been used. I lay no special claim to such covers or protectors, but restrict my invention to a particular contrivance, constructed in a particular manner, viz.: An oil-hole cover or appliance, consisting of two inverted cylinders, one within the other—the outer one with an open head, and the inner one with a closed head, with a spring between them, and arranged in a hub, journal-box, or bearing, under a conical or flaring opening, so that the nozzle of an oil-can introduced will be guided into and through the opening in the head of the outer cylinder, and pressing against the closed head of the inner cylinder, open an avenue for the introduction of oil, which avenue is self-closing the moment the nozzle is removed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawing.

A represents a journal-box, or a shaft, or axle-bearing, which may have an elevated portion, *a*, upon it, through which, and nearly or quite through the box or bearing A there is an opening of suf-

ficient size to admit and hold the oil-hole closing mechanism, which is made as follows: *j* is an outer metallic case or cylinder, having an opening, *b*, in or through its head. The lower end of this outer case is open to allow the oil to pass through it. For convenience in the construction of the protector or oil-hole cover I cut slots in the lower end of the case *j* and bend the metal between the slots inward, as seen at *c*, so as to form supports or a ledge for a disk or bottom, *e*, of a stem, *f*, to rest upon. Within this outer case *j* is placed the inner closed case or cylinder *i*, which rides upon the top of a coiled spring, 2, which spring in turn is supported upon or by the disk *e* and stem *f*, and forces the solid head of the inner cylinder against the open head of the outer cylinder, and thus closes the opening *b* therein.

The mechanism thus constructed being inserted in the opening or recess prepared for it in the journal-box or shaft-bearing A, a flaring ring, *n*, is placed in and over it, which serves as a guide for the nozzle of the oil-can in finding the opening *b*, and coming against the closed head of the inner cylinder *i* and by gently forcing it down opens the chamber for the reception of the oil, which thence passes through to the surface to be oiled, said ring *n* also forming the fastening by which the mechanism is held in place.

Having thus fully described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The herein-described mechanism for forming an oil-hole cover or protector, viz.: The outer and inner case or cylinder *j i*, stem *f*, spring 2, and flaring ring *n*, constructed, arranged, and operating as and for the purpose described and represented.

SMITH A. SKINNER.

Witnesses:

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J. RUSSELL PARSONS.

(87)