

(No Model.)

C. E. LASHER, W. J. WEBSTER & D. L. NEWTON.
WORKING BARREL PROTECTOR.

No. 518,108.

Patented Apr. 10, 1894.

Fig. 1.

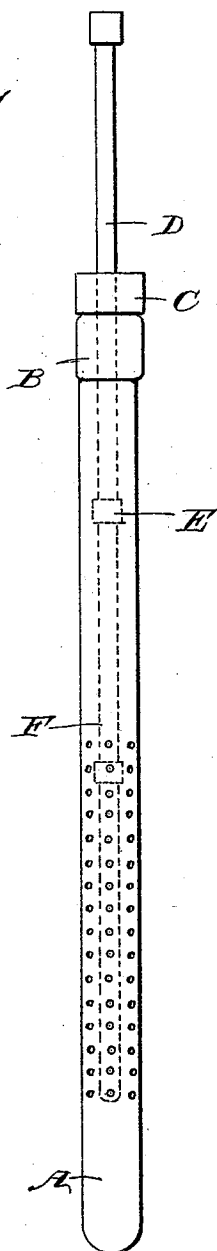
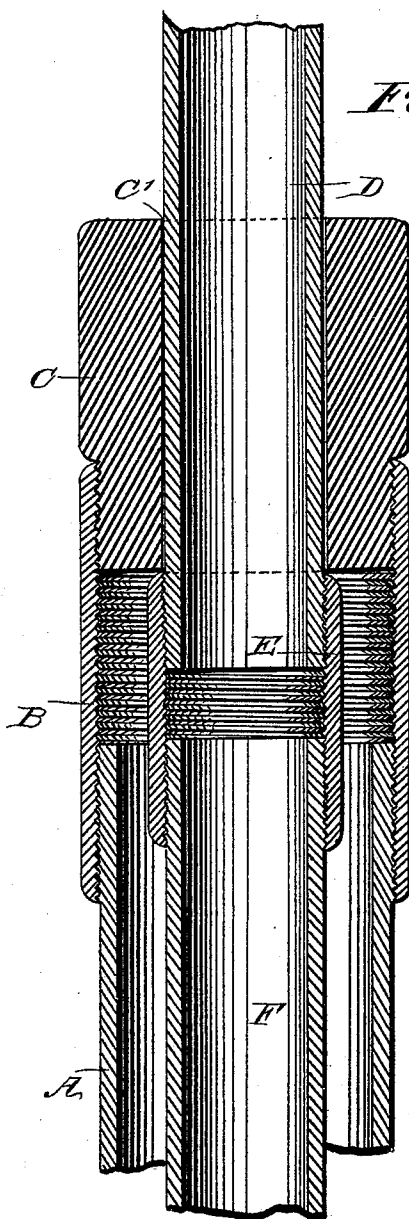


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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NEAR OAKDALE STATION, PENNSYLVANIA.

WORKING-BARREL PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 518,108, dated April 10, 1894.

Application filed November 4, 1893. Serial No. 489,995. (No model.)

To all whom it may concern:

Be it known that we, CHARLES E. LASHER, WILLIAM J. WEBSTER, and DAVID L. NEWTON, residing near Oakdale Station, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Working-Barrel Protectors, of which the following is a full, clear, and exact description.

The object of the invention is to provide certain new and useful improvements in pumping wells, whereby loss of the working barrel is prevented, as the operator is enabled to conveniently and quickly draw up the casing containing the working barrel in case the latter becomes disconnected from the tubing.

The invention consists of an integral casing provided with a cap for the passage of the tubing, and an abutment inside of the said casing and carried by the tubing or the barrel, to engage the inside of the said cap.

The invention also consists of certain parts and details, and combinations of the same, as will be hereinafter described and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of the improvement; and Fig. 2 is an enlarged sectional side elevation of part of the same.

The oil well casing A, closed at the lower end and provided with the usual perforations in its side, is provided at its upper end with an ordinary threaded coupling B, supporting a cap C, having a central bore C', for the passage of the lower end of the tubing D, connected at the inside of the casing A by a coupling E, with the upper end of the working barrel F, of the usual construction. The coupling E is larger in diameter than the bore C' so that the said coupling can form an abutment on the under side of the cap C when the tubing D is drawn up. Thus, when

the working barrel F gets out of order or becomes detached from the lower end of the tubing D and it is necessary, in order to further operate the well, to repair the damage done, the operator pulls up the tubing D so that the coupling E abuts against the under side of the cap C, and on further pulling up the tubing, the said cap, coupling B and the entire casing A with its contents, is drawn up out of the well. The operator can then remove the cap C so as to get at the contents of the casing A to repair the damage. The entire device is then again lowered in the well so that operations in pumping the well, can be resumed.

In case the casing A should become fastened within the wall of the well, then the operator, when drawing up the tubing can by successive pulls, cause the coupling E to strike the under side of the cap C to finally loosen the casing to permit the withdrawal of the entire device as above described.

It will be seen that by this arrangement no time whatever is wasted in withdrawing the barrel from the oil well in case of accident to the working barrel.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

The combination with the perforated integral casing, closed at its lower end, and the cap rigidly connected therewith, of the well tubing, passing through and adapted to work in said cap, the barrel, arranged in said casing, and a coupling between the tubing and barrel, which forms an abutment adapted to contact with the under side of the cap, as shown and described, for the purposes specified.

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Witnesses:

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