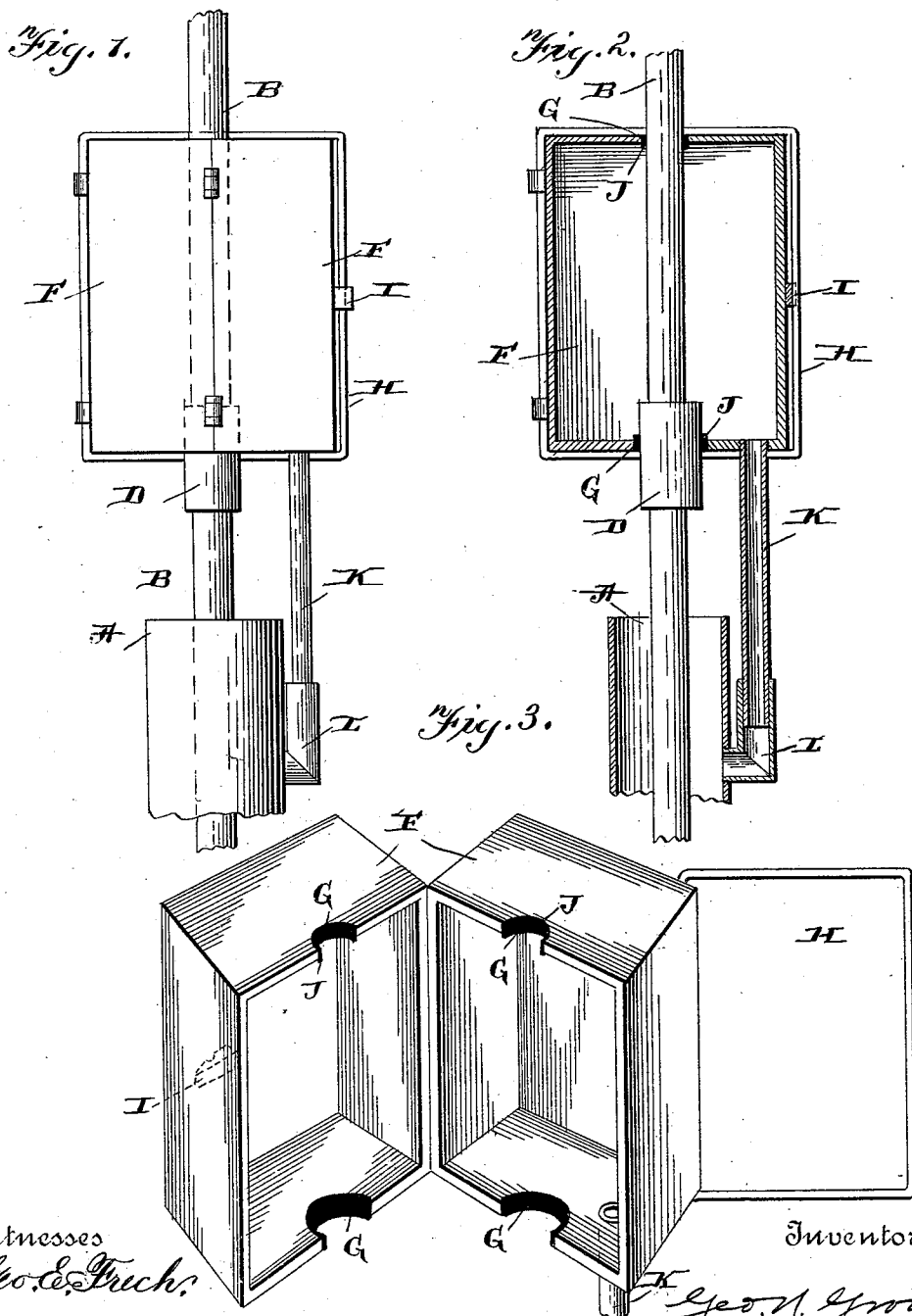


(No Model.)

G. N. GROW.
OIL SAVING ATTACHMENT.

No. 560,986.

Patented May 26, 1896.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE N. GROW, OF DUKE CENTRE, PENNSYLVANIA.

OIL-SAVING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 560,986, dated May 26, 1896.

Application filed February 27, 1896. Serial No. 580,928. (No model.)

To all whom it may concern:

Be it known that I, GEORGE N. GROW, of Duke Centre, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Oil-Saving Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

This invention is an oil-saving attachment which is adapted to incase the joints of well-tubing when being unscrewed, so as to catch the oil which escapes from the tube-sections, and from which it is run back into the well-casing and thus saved.

The invention consists in the novel features of construction hereinafter fully described and claimed, and illustrated by the accompanying drawings, in which—

Figure 1 is an elevation, shown partly in section, of my improved device in position. Fig. 2 is a vertical sectional view. Fig. 3 is a detail perspective view of the device detached from the tubing.

A designates the well-casing, through which the tubing B is raised by means of an ordinary oil-well elevating device. (Not shown.) A boxing or casing F is sectioned longitudinally and provided with alined openings G in its upper and lower ends, the lower opening being the larger of the two, so as to embrace coupling D, while the upper opening is of proper size to cause the well-tubing to fit tightly therein. The device F is closed about the tubing, as shown, the sections thereof being secured together by the swinging bail H, carried by one of the sections and embracing the other, a wedge-shaped latch or holding device I serving to draw the bail tightly and thus close the sections together. Packing J may be arranged about the tube and coupling at the points where they pass through the receptacle to prevent leaking.

The tubing is unscrewed from the coup-

ling collar or sleeve by any of the well-known devices adapted for the purpose, and when removed the oil confined in the tubing-sections will escape into the receptacle F and pass from thence through the pipe or hose K to the pipe L, leading into the well-casing, thus conveying the surplus oil back into the well. Pipe K depends into pipe L and holds the casing from turning when the tubing is turned for unscrewing. The device is readily positioned and easily removed, and serves in a most effectual manner to prevent unpleasant splashing of the oil during the uncoupling operation, and also saves the oil which would otherwise be wasted. It will be understood that the working barrel at the bottom of the well-tubing, containing the foot-valve, prevents the backward flow of oil from the tubing into the well, and hence the same remains filled with oil after the pump-rod and mechanism have been removed. Heretofore it has been customary to wrap the uncoupling-joint with cloth in order to prevent, as much as possible, the splashing of the oil; but such proceeding is crude and does not save the oil, while the device herein shown and described does save the oil and prevents the splashing in a most effectual manner.

I do not limit myself to the particular device herein shown and described for securing the casing to the tubing, nor do I limit myself to the particular shape of the case, as these points are of minor importance and may be varied without departing from the spirit of my invention.

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

1. The combination, in an oil-saving device, of sections F adapted to close around the joint of a well-tube, a removable bail adapted to embrace both sections when closed together and hold them in position upon the tube, pipe K depending from the bottom of one of the sections F, the well-casing, and the elbow connection L having a vertical branch into which the lower end of pipe K

enters when the oil-saving attachment is put in place, substantially as shown and described.

2. In an oil-saving device, the combination
5 of the casing formed of the longitudinal sections F hinged together, bail H having the same internal outline as the vertical transverse extent of the casing when closed, said bail being hinged to one of sections F, and a

device for securing the free side of the bail to the casing, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE N. GROW.

Witnesses:

HERMAN H. NORTH,
WILLARD J. KING.