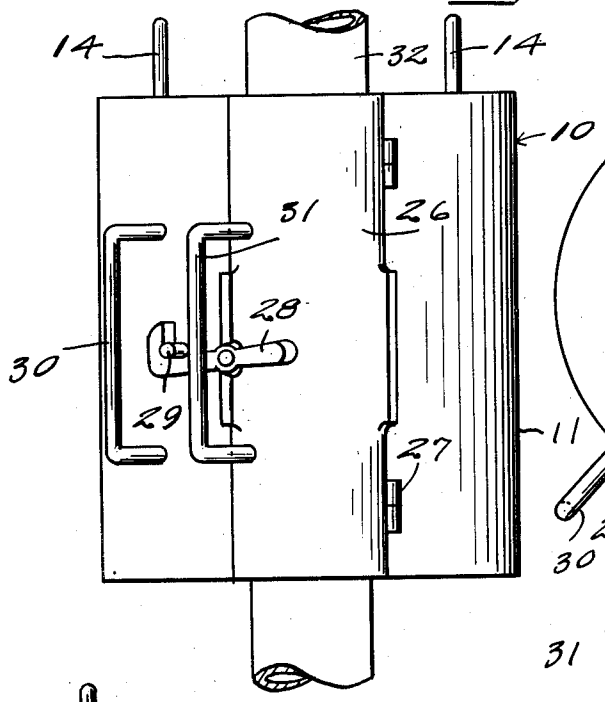
July 4, 1950 W. J. CORDES 2,513,714

OIL SAVER

Filed April 14, 1948 2 Sheets-Sheet 1

Fig. 1.



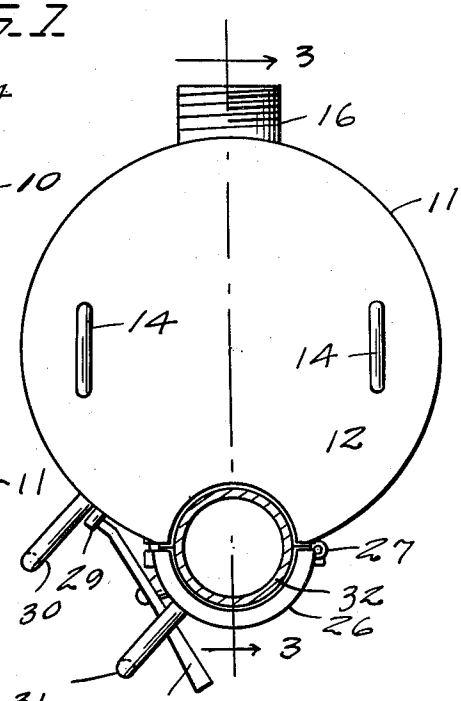


Fig. 2.

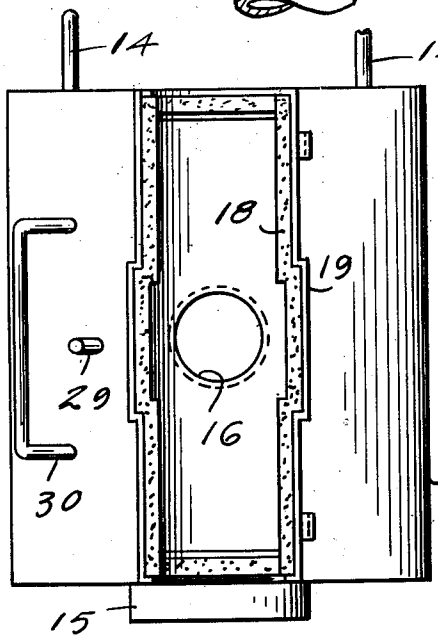


Fig. 5.

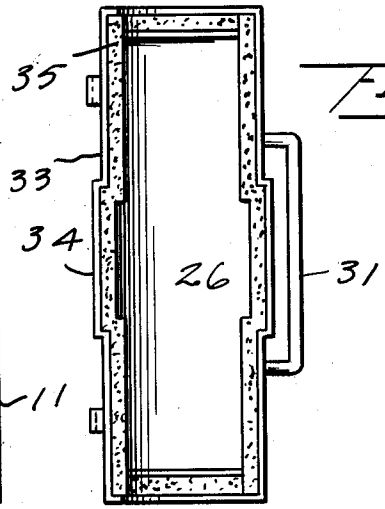


Fig. 6.

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July 4, 1950 W. J. CORDES 2,513,714

OIL SAVER

Filed April 14, 1948 2 Sheets-Sheet 2

Fig. 3

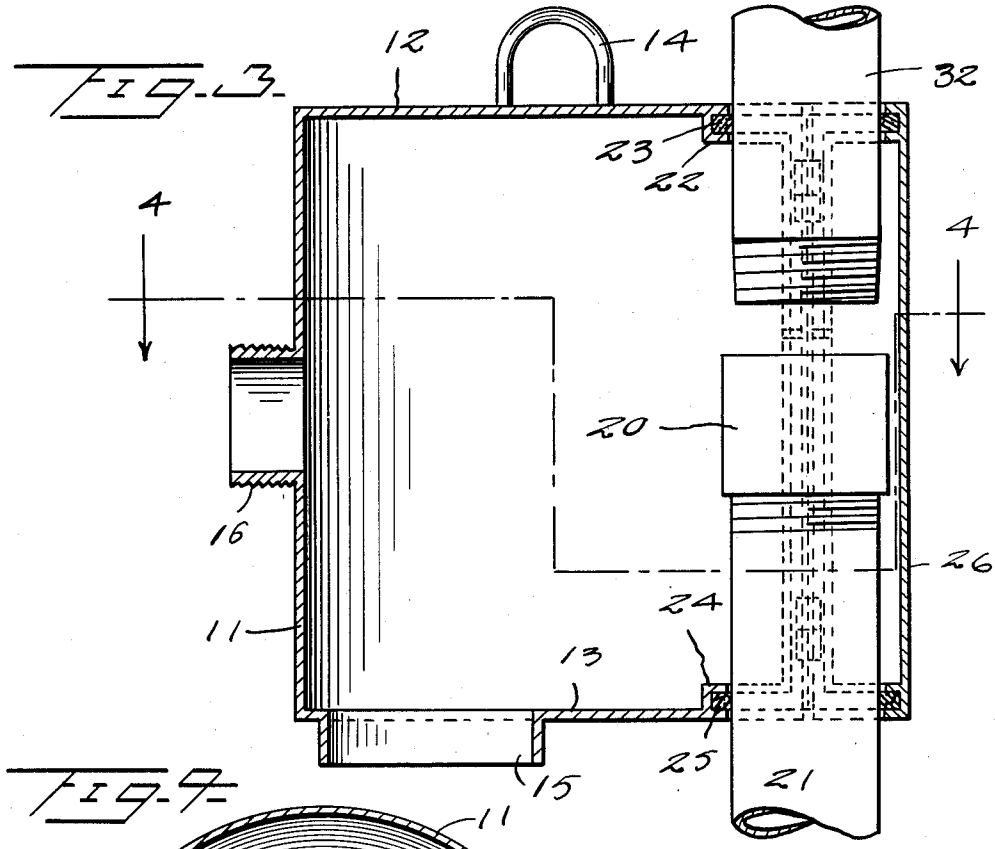
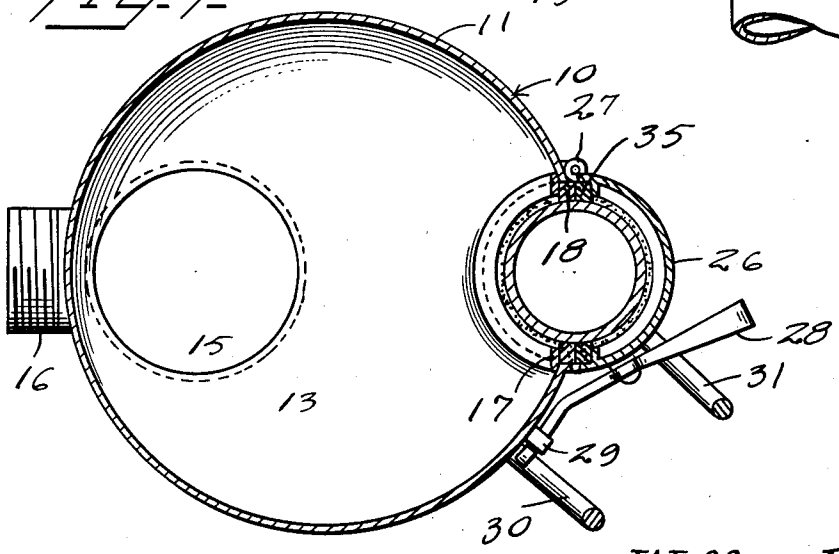


Fig. 4



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OIL SAVER

Walter J. Cordes, Bakersfield, Calif.

Application April 14, 1948, Serial No. 20,953

2 Claims. (Cl. 166—16)

1

This invention relates to an oil or fluid saver or collector, and is an improvement over the oil saver embodied in my prior Patent No. 2,137,832, issued November 22, 1938.

In the uncoupling of tubular or pipe sections which have been extended into a well opening or casing, and which are being withdrawn, it frequently occurs that a substantial quantity of fluid, such as oil, mud or the like remains in the pipe. When the pipe sections are uncoupled the fluid in the upper section drains out quickly and usually flows onto the floor of the rig or on the adjacent area, thereby creating a fire hazard, making the floor or surface slippery, or otherwise rendering the area about the well dangerous for both the workers and the physical property. It is, therefore, an object of this invention to provide a removable guard or collector which can be easily and quickly engaged about the uncoupled pipe sections, and which is so constructed and arranged that an upper section can be uncoupled by unscrewing from the lower section, and if any liquid is present in the upper section or if there is a flow of liquid from the lower section, such liquid will be confined and collected or received into the detachable collector, and such liquid will thereby be held against spilling onto the adjacent area, with the result that fire and other hazards will be eliminated, and any worthwhile liquids, such as oil, will be saved.

Another object of this invention is to provide a collector of this kind which includes a substantially cylindrical collector body having an offset pipe clamping member in one side thereof, so that the collector may be of any practical diameter and length, and the device will be substantially self-supporting when in operative position.

To the foregoing objects, and others which may hereinafter more fully appear, the invention consists of the novel construction, combination and arrangement of parts, as will be more specifically referred to and illustrated in the accompanying drawings, but it is to be understood that changes, variations, and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawings:

Figure 1 is a detailed front elevation of an oil saving device constructed according to an embodiment of this invention.

Figure 2 is a plan view of the device, partly in section.

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

2

Figure 5 is a front elevation of the device with the clamping closure removed.

Figure 6 is an inner side elevation of the clamping closure removed from the body of the device.

Referring to the drawings, the numeral 10 designates generally a receiver or collector which is formed with a cylindrical body 11 having upper and lower walls 12 and 13, respectively. The upper or top wall 12 has secured thereto a pair of upstanding eyes or loops 14 by means of which the device may be suspended in a position with the pipe encircling or clamping portion thereof engaged about a pipe. The receiver or collector 10 is provided in the lower wall thereof with a nipple 15 by means of which the receiver or collector may be connected through a pipe or hose to a reservoir or the like. The nipple 15 comprises a drain nipple and a second nipple 16 is carried by the side wall 17 at a point above the bottom wall 13.

The side wall 11 is formed with a cut-out extending lengthwise thereof and a pair of vertically disposed seal retaining members 17 are fixed to the side wall 11 on the edges of the cut-out and within which seal strips 18 are adapted to be secured. The seal holding or retaining members 17 are provided at a point between the upper and lower ends thereof with offset portions 19 as shown in Figure 5 so that the coupling sleeve 20 of a lower pipe section 21 may be firmly and tightly engaged.

The top wall 12 is also formed with a semi-circular seal retaining or holding member 22 within which a semi-circular seal 23 is mounted and the bottom wall 13 also has a semi-circular seal retaining member 24 within which a semi-circular seal member 25 is mounted.

A combined closure and pipe clamping member 26 of semi-cylindrical configuration is hingedly secured as at 27 to the collector or receiver 10 and the closure 26 is adapted to be locked in closed position by means of a pivoted latching member 28, engageable with a keeper 29. The collector or receiver 10 has fixed thereto a looped handle 30 and the closure 26 has fixed thereto a looped handle 31 disposed adjacent the loop member 30. An upper pipe section 32 is adapted to be extended through the top of the device and when the upper section 32 is disengaged from the lower section 21 by unthreading from the coupling 20, the liquid which may be retained in the upper section 32 will drain into the receiver 10.

The closure 26 is formed in the inner lengthwise edges thereof with seal retaining members 33 which are offset as at 34 so that the sealing

strips 35 which are carried by the retaining members 33 will engage about the coupling 20. The sealing strips 18 and 35 project slightly from the retaining members 19 and 33, respectively, so that when the closure 26 is in closed position engaging about the pipe, a liquid seal will be provided so that any liquid which may be drained or overflowed from the pipes 21 and 32 will be retained within the collector or receiver 10 and may be drained from the latter through the drain members 15 and 16.

In the use of this device the collector 10 is connected to a reservoir or the like through the drain member 15 and the drain member 16. The collector 10 is suspended by a cable or other flexible element in a position whereby it may be swung to a position for engagement about the initially coupled pipe sections 21 and 32. The upper pipe section 32 may be unthreaded after the closure 26 has been closed to seal the coupled pipes with respect to the collector 10. Any liquid in the upper pipe section 30 may drain into the collector 10 and if any liquid is flowing upwardly in the lower pipe section 21, this liquid will also flow into the collector or receiver 10.

I claim:

1. An oil collector and receiver for securing to a pair of coupled pipe sections comprising a cylindrical casing having upper and lower end walls formed with aligned outwardly opening arcuate recesses and a longitudinally extending slot in the side wall thereof communicating at the opposite ends with said arcuate recesses, a transversely curved closure member having a radius of curvature substantially less than that of said side wall and adapted when in closed position to close said longitudinally extending slot, latch means for holding said closure in closed position, sealing means carried by said casing along the side edges of said slot and about said arcuate recesses, and by said closure along the side and

end edges thereof for sealing said casing and closure about a pair of coupled pipe sections received by said slot and said arcuate recess, and means for draining said casing.

2. An oil collector and receiver for securing to a pair of coupled pipe sections comprising a cylindrical casing having closed upper and lower ends and having a lengthwise extending slot in the side wall thereof communicating with arcuate outwardly opening recesses in said upper and lower ends, a transversely curved closure hingedly carried by said casing and adapted when in closed position to close said lengthwise slot for engagement about a pipe extending through said arcuate end recesses, said closure and said casing having offset portions providing an enlarged annular recess with transverse shoulders within which the coupling pipe sections is adapted to engage, latch means for latching said closure in closed position, means sealing said closure to said casing, and co-engageable sealing means carried by said casing about said arcuate recesses and by said closure for sealing said casing about a pair of coupled pipe sections having the coupling thereof disposed in said annular recess in said closure and casing offsets and resting on the lower transverse shoulder of said recess whereby the latter will hold said casing against downward movement.

WALTER J. CORDES.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,068,665	Douglass	June 26, 1937
2,137,832	Cordes	Nov. 22, 1938
2,163,327	Shaffer	June 20, 1939