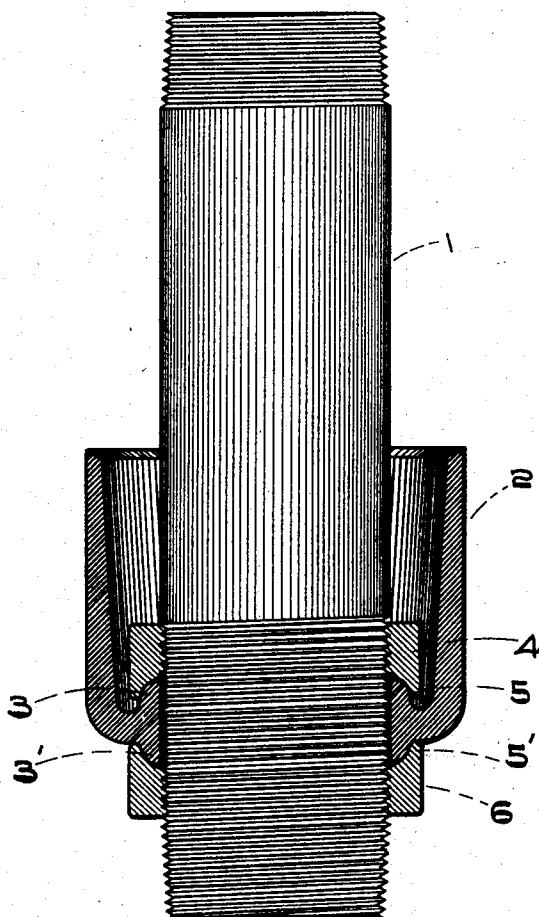


No. 746,184.

PATENTED DEC. 8, 1903.

H. SMITH & W. WRIGHT.
WALL PACKER FOR OIL WELLS.
APPLICATION FILED AUG. 13, 1903.

NO MODEL.



WITNESSES

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UNITED STATES PATENT OFFICE.

HARRY SMITH AND WILLIAM WRIGHT, OF FRANKLIN, PENNSYLVANIA.

WALL-PACKER FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 746,184, dated December 8, 1903.

Application filed August 13, 1903. Serial No. 169,319. (No model.)

To all whom it may concern:

Be it known that we, HARRY SMITH and WILLIAM WRIGHT, citizens of the United States, residing at Franklin, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Wall-Packers for Oil-Wells, of which the following is a specification, reference being had therein to the accompanying drawing.

Our invention relates to an improved wall-packer for oil-wells, and will be fully understood by a reference to the accompanying drawing, forming a part of this specification, and in which the figure is a section of tubing to which our improved wall-packer is attached, said packer being shown in section.

Our device consists of a section of tubing 1, having attached thereto a packer 2, composed of any suitable material, but preferably rubber, of such composition as to resist the chemical action of crude petroleum and salt water.

Our packer is of cup-shaped conformation open at the bottom, with the wall of said opening extended into upwardly and downwardly projecting flanges 3 and 3'.

The section of tubing upon which this packer is placed is externally screw-threaded for a considerable distance at one end, and thereon is placed an internally-screw-threaded collar 4, with its annular concentric lip 5 facing downward. Said lip is formed in such a manner as to form a channel between the same and the periphery of the tubing 1. Said

tubing is then inserted in the packing, with collar 4 inside the cup, and the flange 3 rests in the channel aforesaid. Another collar 6, identical in construction with collar 4, is then screwed upon the tubing, with its lip 5' facing the packing and the channel aforesaid receiving the downwardly-projecting flange 3', and when collar 6 is screwed firmly in place the packing 2 cannot be stripped from the tubing by any amount of hard usage to which a device of this sort is inevitably subjected.

Having thus described our device, what we claim, and desire to secure by Letters Patent, is—

A wall-packer for oil-wells consisting of the combination of a section of externally-threaded tubing, a flexible cup-shaped packing member having an upwardly and a downwardly extending flange about the smaller opening which is adapted to the reception of said tubing, two lipped collars of identical construction, internally screw-threaded and screwed upon said tubing, one upon the interior of the cup-shaped packing and the other exterior thereto, said lips facing each other, and adapted to engage the flanges aforesaid.

In testimony whereof we affix our signatures in presence of two witnesses.

HARRY SMITH.
WILLIAM WRIGHT.

Witnesses:

E. R. INMAN,
B. L. RHOADS.