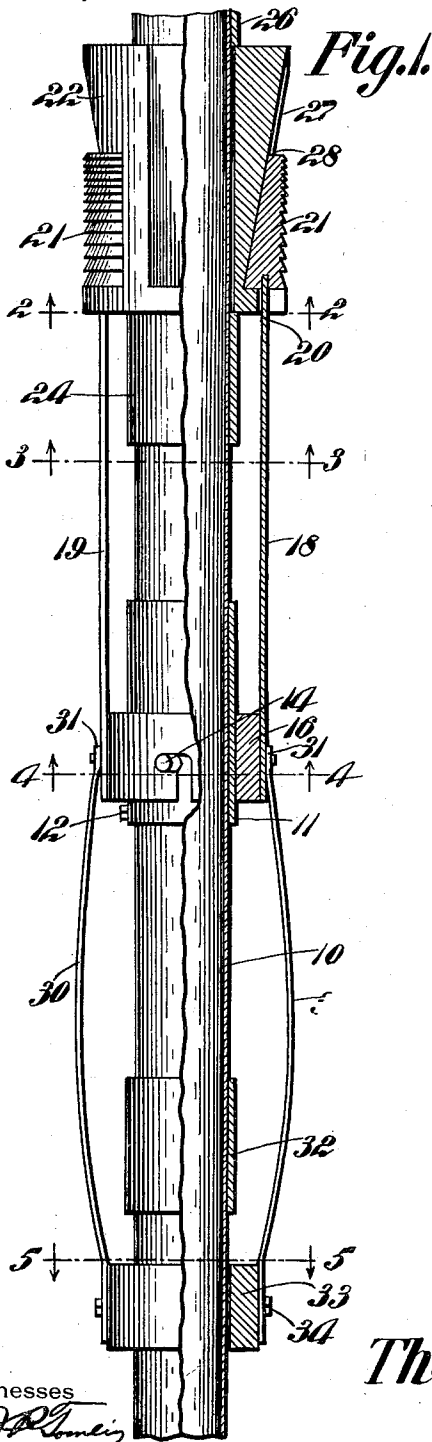
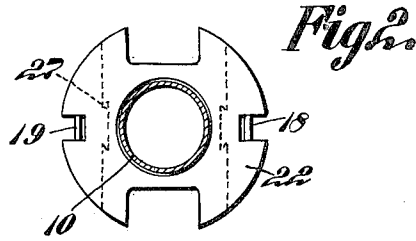
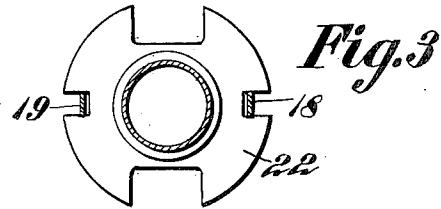
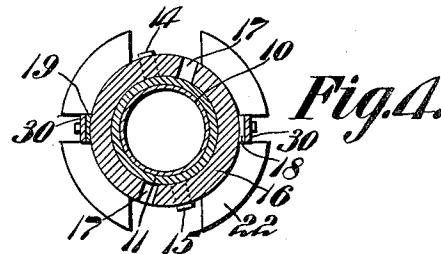
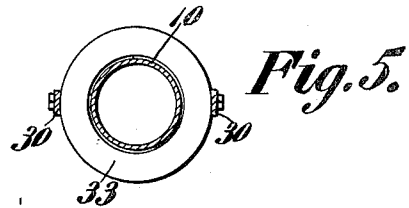


T. E. D. CRUMPTON.
TUBING CATCHER.
APPLICATION FILED MAR. 18, 1912.

1,066,000.

Patented July 1, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS EDWARD DOLPHIN CRUMPTON, OF COALINGA, CALIFORNIA.

TUBING-CATCHER.

1,066,000.

Specification of Letters Patent.

Patented July 1, 1913.

Application filed March 16, 1912. Serial No. 684,343.

To all whom it may concern:

Be it known that I, THOMAS EDWARD DOLPHIN CRUMPTON, a citizen of the United States, residing at Coalinga, in the county of Fresno and State of California, have invented a new and useful Tubing-Catcher, of which the following is a specification.

This invention relates to tubing catchers for oil or gas wells.

10 The primary object of the invention is to provide each of the tubing sections with means for preventing the same from falling within the well, should the sections separate.

15 A further object is to so construct the catcher that the same may be readily released from contact with the well casing as the tubing section is raised by a spear or grab.

20 In the drawings:—Figure 1 is an elevation, partly in section. Fig. 2 is a section taken on line 2—2 of Fig. 1. Fig. 3 is a section on line 3—3 of Fig. 1. Fig. 4 is a section on line 4—4 of Fig. 1. Fig. 5 is a section on line 5—5 of Fig. 1.

25 In the drawings, 10 designates the tubing, which ordinarily is placed in sections in the well. As stated above, the purpose of the present invention is to provide each of these sections with means, adapted to contact with the well casing, to support the tubing should the sections separate.

30 Each of the tubing sections at various points, preferably adjacent the couplings between the sections, are provided with a sleeve 11, said sleeve 11 being supported on the tubing by set screws 12. This sleeve is provided with a plurality of lugs 14 and 15 which extend radially from the same.

40 A collar 16 is slidably arranged upon the sleeve 11, said collar being provided with bayonet slots 17 which receive the radially extending lugs 14 and 15, the collar being thus supported on the sleeve.

45 A plurality of rods 18 and 19 are secured to said collar, the terminals 20 of said rods being enlarged and secured to jaws 21. The cylindrical member 22 is supported, on the tubing between the collars 24 and 26, said cylindrical member 22 being provided with the dove-tail grooves 27, which are beveled, the jaws 28 which are correspondingly dove-tailed, sliding in said grooves, the bevel of the grooves forcing the jaws in contact with the well casing when the tubing section

which supports the same descends. Secured to each of the rods 18 and 19 is a bowed spring 30, the terminals 31 of said springs being secured to a collar 33 which is mounted upon the tubing in the same manner as the collar 16, a collar 32 being secured to the tubing and interposed between the collars 16 and 33.

60 It will be noted that should the tubing sections separate the collar 16, being rotated to unlocked position the bow spring 30 would by frictional contact with the well casing force the wedges 21 upward to support the tube 10 by wedging contact of the members 21 with the well casing.

65 It will be noted that as soon as the tubing is raised by means of a spear or other catcher, the block 22 may be drawn upward, and the jaws assume their normal position, out of contact with the casing, allowing the sections to be readily withdrawn from the well.

70 It will thus be noted that the device provides an effective tube catcher, which when a tube section becomes detached, holds the same against falling, and which as soon as the tube is raised by any suitable means, immediately releases to allow for the removal of the tube.

75 It will also be noted that the peculiar gripping mechanism allows the tubing to be lowered into the well at any depth, the device not being set for gripping, until the radially extending lugs 15 are brought into the longitudinal portion of the bayonet slots 16, the springs 30 controlling the slip of the catcher.

80 What is claimed is:—

85 1. A tubing catcher for oil and gas wells, comprising a sleeve secured to the tubing section, said sleeve being formed with radially extending lugs, a collar arranged upon said sleeve, said collar being slotted to receive said lugs, a cylindrical member provided with beveled, grooved surfaces, jaw members slidably disposed on said beveled surface, said jaws being formed with ribs extending within the grooves therein, rods connecting said jaws and springs carried by said rods, a second collar, the terminals of said spring remote from the rods being secured to said second collar.

90 2. A tube retaining device for oil and gas wells, comprising a sleeve secured to the tubing section, a collar removably secured to said sleeve, a cylindrical member arranged

upon said tubing section, collars arranged
upon said tubing section adjacent the ends
of said cylindrical member, said cylindrical
member being formed with grooved, beveled
5 surfaces, jaws slidably disposed on said beveled surfaces, said jaws being formed with
ribs extending within the grooves formed in
said cylindrical member and rods connecting
said jaws with the first mentioned collar.
10 3. A tube retaining device for oil and gas
wells, comprising a sleeve, secured to the
tubing section, a collar removably secured
to said sleeve, a cylindrical member arranged
upon the tubing section, jaws supported for

sliding movement by said cylindrical mem- 15
ber, rods connecting said jaws and said collar, springs supported by said rods, and a
second collar removably secured to said tubular section, said spring being secured to
said second collar. 20

In testimony that I claim the foregoing as
my own, I have hereto affixed my signature
in the presence of two witnesses.

THOMAS EDWARD DOLPHIN CRUMPTON.

Witnesses:

E. D. PARKER,
PAUL HUNTZACH.