

No. 798,356.

PATENTED AUG. 29, 1905.

F. E. LINDER.
PULLEY PUMPING STAND.
APPLICATION FILED FEB. 20, 1905.

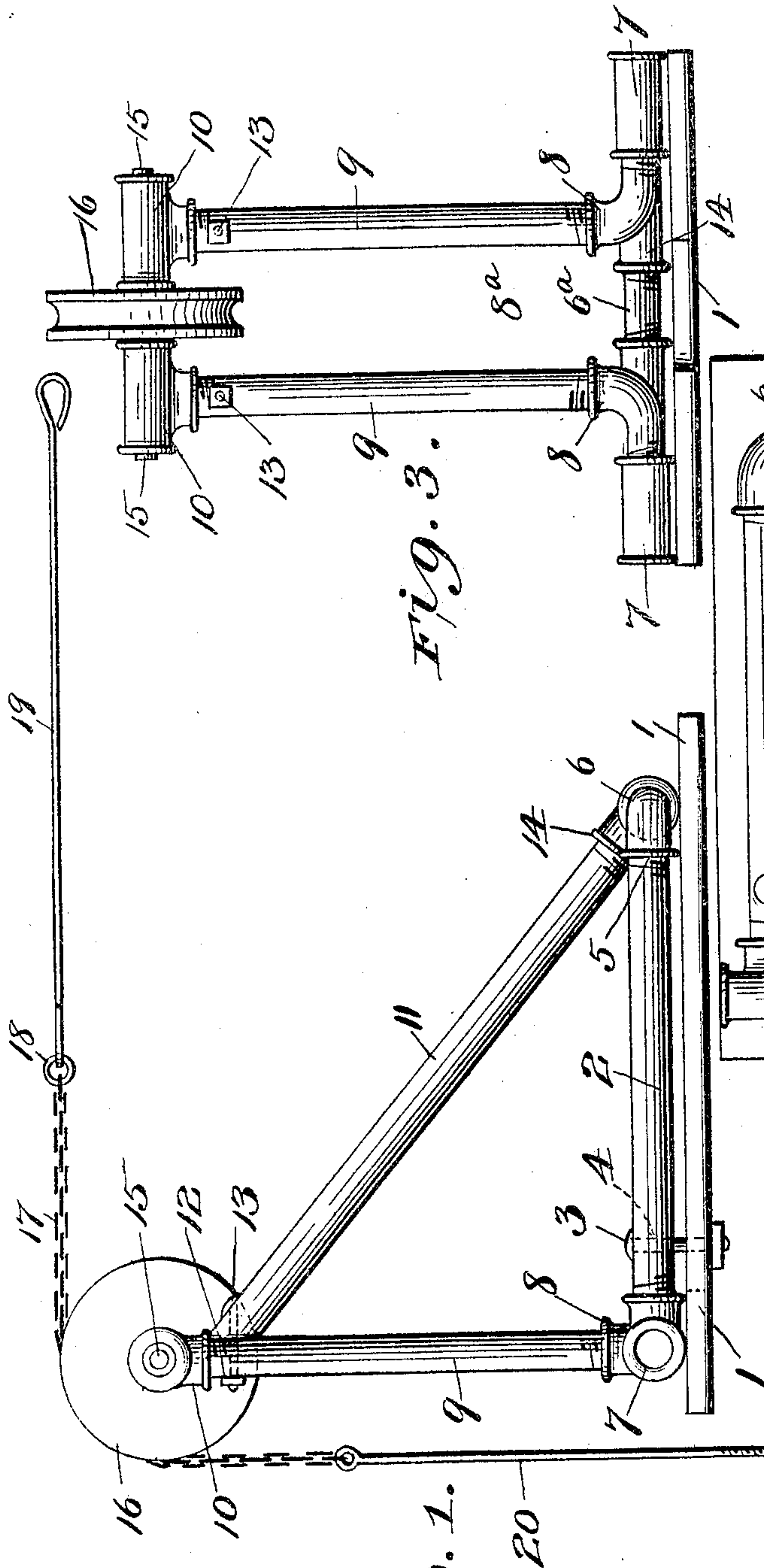


Fig. 1.

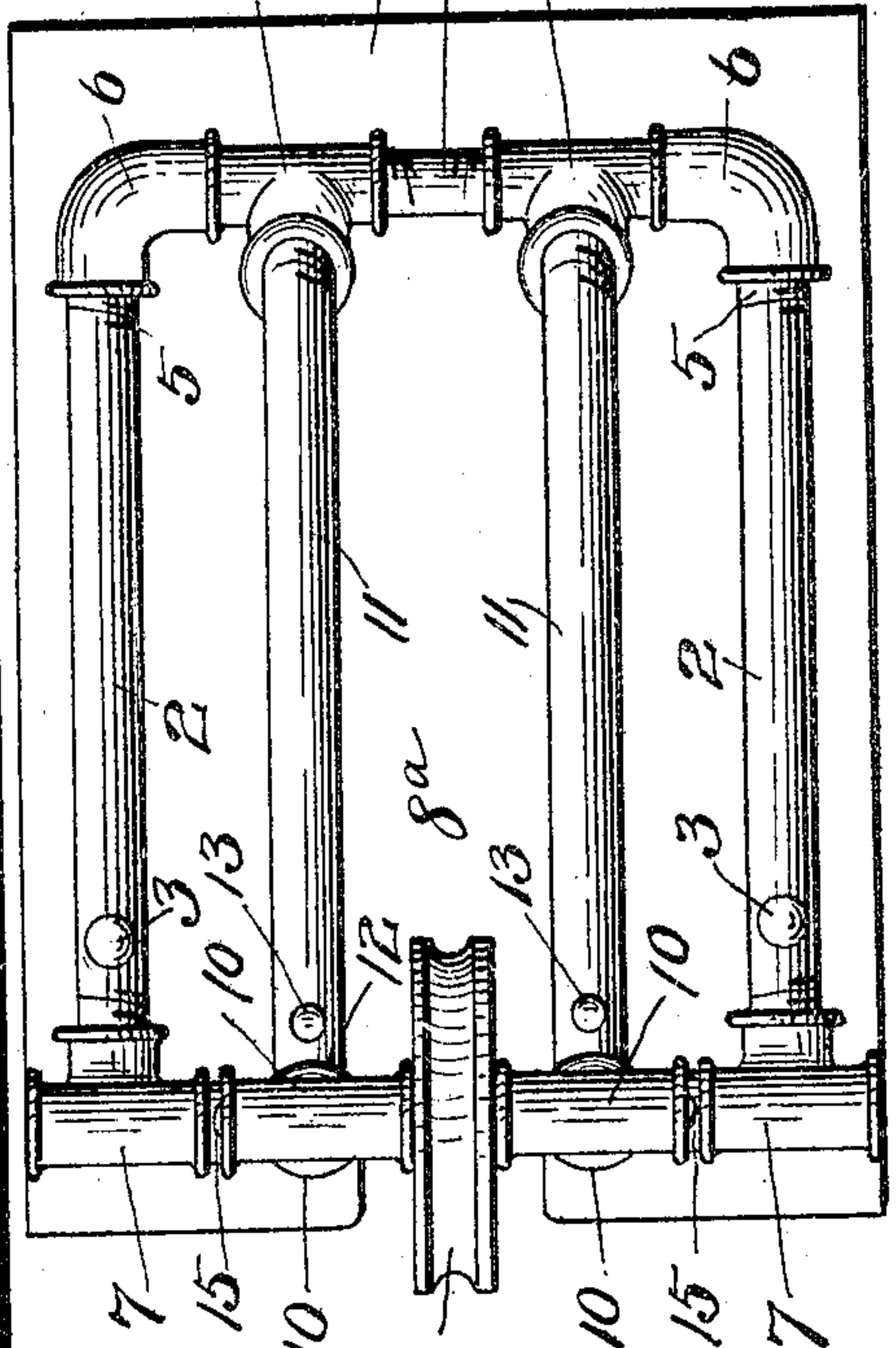


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

FRANK EDWARD LINDER, OF HUMBOLDT, KANSAS.

PULLEY PUMPING-STAND.

No. 798,356.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed February 20, 1905. Serial No. 246,559.

To all whom it may concern:

Be it known that I, FRANK EDWARD LINDER, residing at Humboldt, in the county of Allen and State of Kansas, have invented certain new and useful Improvements in Pulley Pumping-Stands, of which the following is a specification.

My invention relates to improvements in pulley pumping-stands for use in connection with a pump for oil-wells and designed to be placed above the tubing, casing, or casing-head of said well.

The invention has for its object to provide a pulley pumping-stand which is simple, inexpensive, strong and durable in construction, and easy to operate and which when in operation is capable of rendering a maximum amount of work with a minimum amount of friction, thus effecting a great saving of power and wear on the several parts of the same and the wasting of oil or other fluids.

My invention further has for its object to provide a device which is portable, and therefore can be transported to any point where it is desired to use the same at very short notice and quickly adjusted for use.

The invention consists of the features and combination of features more fully hereinafter described and claimed.

Referring to the drawings, Figure 1 is a side view in elevation of my invention ready for use; Fig. 2, a top plan view; Fig. 3, a front elevation.

In the drawings, in which like numerals of reference denote like parts throughout the several views, 1 represents the platform or derrick-floor on which the pulley pumping-stand is designed to be mounted; 2, horizontal tubular side bars which are secured to the platform 1 by means of bolts 3 passing through holes 4 in said bars. The rear end 5 of each of said bars 2 is screw-threaded and provided with a tubular elbow 6, having interior screw-threads.

The front end of each bar 2 has screwed thereon a T-shaped tubular piece 7, each of which is provided on the inner end with an upwardly-extending tubular elbow 8, screwed into the same. Said elbows are provided with a space 8^a between them for the purpose of allowing sufficient space for the pump tubing or casing. Into each of the tubular elbows 8 is screwed a vertical tubular bar 9, and each of same bars is provided at the upper end with screw-threads and has a T-shaped tubular head 10.

11 represents two diagonally - extending tubular braces, the upper ends of which are beveled off, as at 12, and bolted to the tubular bar 9 by means of bolts 13 and engage the lower edge of tubular head 10, the lower ends of said braces being provided with T-shaped heads 14, screwed onto the inner ends of the tubular elbows 6. A straight tubular bar 6^a connects the T-shaped heads 14 by having its ends screwed into the same.

The opposite ends of a short stationary axle 15 are mounted in the T-shaped tubular heads 10, said axle having a grooved pulley 16 loosely mounted thereon between the tubular heads 10. A chain 17 is passed over said pulley and is connected at one end by means of a ring 18 to a rod 19, which rod is to be connected with an engine or other source of power, while the opposite end of said chain is attached to the top of the pump-rod 20.

Instead of the pulley 16 and chain 17 a sprocket wheel and chain may be used, if desired.

By constructing the pulley pumping-stand of tubular iron or steel instead of solid metal or wood it is much stronger and will stand almost any amount of strain put upon it, and by having the vertical tubular bars 9 and the braces 11 in line with each other and near the center of the device also tends to add to the rigidity and strength thereof.

When it is desired to use the device, it is placed just above the tubing or casing of the well in such a position that the pump-rod will be directly in the center of said casing. Then when power is applied the pump-rod will be lifted and lowered without binding in the stuffing-box, and in consequence the stuffing-box will not become worn and leak. The pump-rod is lifted or elevated by means of the power connected to the chain 17 and rod 19, but is lowered by force of gravity.

I preferably make all parts of steel; but they may be made of any material found suitable for the purpose.

I do not desire to be understood as limiting myself to the specific details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement on the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore reserve the right to all such variations and modifications as properly fall within the

scope of my invention and the terms of the following claims.

What I claim is—

1. A pulley pumping-stand comprising a
5 frame having horizontal bars, upright bars
rising therefrom provided with tubular heads,
an axle mounted in said heads, a pulley mount-
ed on said axle between said heads, and braces
10 connecting the rear portion of the frame with
the upright bars, substantially as described.

2. A pulley pumping-stand comprising a
frame having tubular side bars each provided
with an elbow at one end and the opposite
15 end provided with a tubular top piece, an el-
bow secured on each of said tubular pieces,
a tubular bar extending vertically upward
from each of said elbows, a wheel mounted
at the top of said vertical tubular bar, and
20 braces extending diagonally downward from
the top of said vertical tubular bar and se-
cured in heads which are secured to the elbows
on the horizontal bars, and a bar connecting
said heads, substantially as described.

3. A pulley pumping-stand comprising a
25 frame having tubular horizontal side pieces,
vertically-extending bars at one end of said
side pieces and also braces both of which are
on a line with each other in a different verti-
cal plane from said side pieces, and a wheel
30 at the top of said frame, substantially as de-
scribed.

4. A pulley pumping-stand comprising a
tubular frame, having horizontal bars, up-
right bars rising therefrom provided with

tubular heads, an axle mounted in said heads, 35
a pulley mounted on said axle, and tubular
braces connected to the upright bars, sub-
stantially as described.

5. A pulley pumping-stand comprising a
frame having tubular side bars provided with 40
holes, bolts passing through said holes and
connecting said side bars with the platform,
T-shaped tubular pieces at the front end of
said side bars, tubular bars extending upward
therefrom and provided at the top with 45
T-shaped heads, an axle mounted in said heads
carrying a pulley, and a chain passing over
said pulley one end designed to be connected
to a suitable source of power and the oppo- 50
site end connected to a pump-rod, substan-
tially as described.

6. A pulley pumping-stand comprising a
frame having horizontal side pieces and a
horizontal rear piece, vertically-extending
bars at one end of said side pieces and braces 55
extending from said rear piece to the verti-
cally-extending bars, said vertically-extend-
ing bars and braces being on a line with each
other in a different plane from the side pieces,
and a wheel mounted at the top of said frame, 60
substantially as described.

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

FRANK EDWARD LINDER.

Witnesses:

FRANK KNOCKER,
J. S. WEBB.