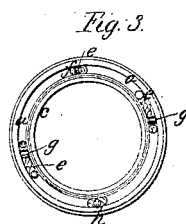
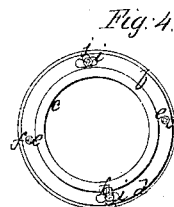
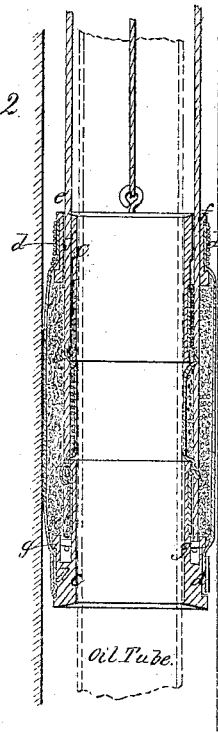
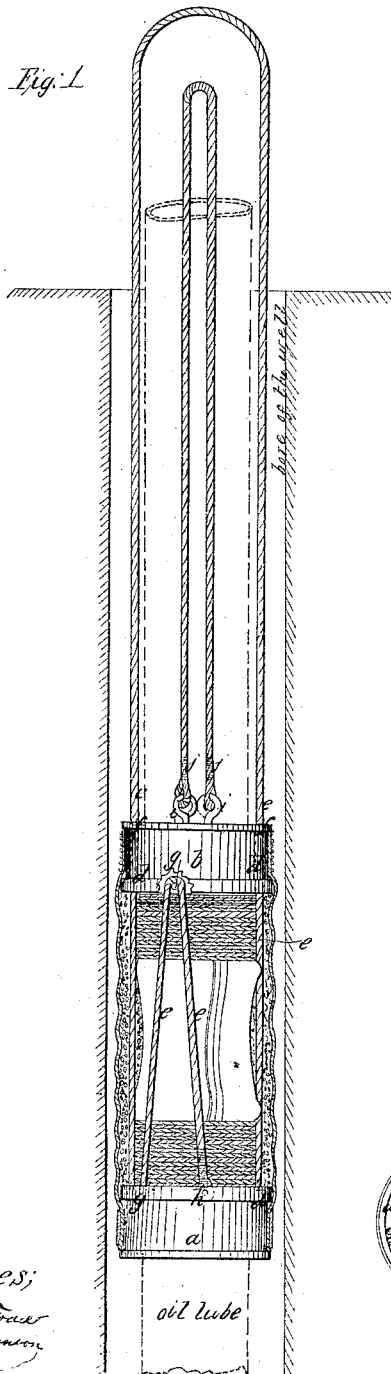


*C. L. Noe,
Well Packing.*

N^o 49544.

Patented Aug. 22, 1865.



*Witnesses;
Charles L. Noe
Henry H. Johnson*

*Inventor;
Charles L. Noe.*

UNITED STATES PATENT OFFICE.

CHARLES L. NOE, OF BERGEN POINT, NEW JERSEY.

IMPROVEMENT IN PACKING FOR OIL-WELL TUBES.

Specification forming part of Letters Patent No. 49,544, dated August 22, 1865.

To all whom it may concern:

Be it known that I, CHARLES L. NOE, of Bergen Point, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in the Construction of Seed-Bags or Devices for Packing the Oil-Tubes in the Bores of Oil-Wells; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings which accompany and form a part of this specification.

Of these drawings, Figure 1 is a view of the seed-bag with the exterior covering removed, showing the means employed to operate it. Fig. 2 is a central vertical section of the seed-bag. Fig. 3 is a view of the upper face of the bottom flange. Fig. 4 is a view of the upper face of the top flange, these two last-named figures showing the holes and pins through and over which the cords or ropes pass, and those pins to which they are attached for the purpose of operating the seed-bag.

Similar letters of reference in the several drawings indicate corresponding parts.

The nature of my said invention consists in providing oil-wells with a packing which can be quickly and easily operated, shifted, and removed, and which, from the arrangement of its parts, will be more effective and wear longer than any packing yet constructed.

To enable others to make and use my invention, I will proceed to describe it in detail.

a is a flange forming the bottom of the bag, and *b* a flange forming the top, both formed with a round opening in the center to admit of their passage up and down the well and around the oil-pipe when in use. On the surface of the flanges *a b*, I affix, by means of cordage or other suitable fastenings, an inner cylinder of leather or its equivalent, which surrounds the round opening in the said flanges. On the rim or periphery *d d* of the flanges *a b*, I affix another cylinder of leather or its equivalent, thereby making a receptacle between these two cylinders, in which is to be inserted the seed or other suitable stuffing material. I then pass one end of a stout cord or rope, *ee*, through one of the small holes *ff* in the upper flange of the seed-bag, down and around one of the two pins *g g*, which are placed opposite each

other upon the upper face of the lower flange, then up and over one of the two pins *g g*, placed opposite each other upon the under face of the upper flange and equidistant from the holes *ff*, and then fasten it down to one of the two pins *h h*; and the other end of the cord or rope I pass through the other of the small holes *ff*, and arrange it in a similar manner with respect to the remaining pins upon the flanges *a b*. It is clear that friction-rollers, small pulleys, or other suitable devices could be substituted for these pins. I place in the upper face of the flange *b* two screw-eyes, *ii*, arranged opposite each other and equidistant from the holes through which the cord or rope *ee* passes. Into these eyes I attach cords or ropes *jj*, being for the purpose of raising, lowering, or shifting the apparatus at pleasure.

Having filled the receptacle between the two leather cylinders with a suitable stuffing material, (and I prefer to insert flaxseed or tallow, for reasons hereinafter stated,) and the cord or rope *ee* being already adjusted through the holes in the upper flange and around the respective pins of the flanges, as above stated, the apparatus can be easily lowered into the well by gravity, and when the point is reached at which it is necessary to have the seed-bag pack the well a short pull on the cord or rope *ee* will instantaneously effect the packing by drawing the respective ends of the cord or rope *ee* shorter around the pins on the flanges *a b*, and thereby cause the flaxseed or tallow to swell or press in a side direction all around and against the two inner sides of the flexible cylinders, and thereby render a close and perfect packing between the oil-pipes and the side of the well, when a slacking of the cord or rope *ee* and a strain upon the cords or ropes *jj* will cause the packing to quickly release itself and enable the operator to shift it to any desired distance up and down the well or withdraw it altogether.

I prefer the flaxseed as a packing, and also prefer to construct the cylinders of leather, for the reason that the water percolating slightly through the cylinders will cause the flaxseed to swell, and thereby give a constantly-enlarging water-tight packing. Tallow also is an excellent substance for stuffing. Leather is also

preferable for the cylinders, on account of its better adaptation to irregularities in the well, combined with its great durability.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The two flanges *a b*, with the pins and holes therein contained, or their equivalents, in combination with the cord *e e* and the two leather cylinders, with a stuffing contained be-

tween them, operating and for the purpose substantially as herein described.

2. The application and arrangement of the cord or rope *j j* and eyes *i i* with the seed-bag, as herein described.

CHARLES L. NOE.

Witnesses:

ANDREW J. TODD,

HENRY T. MALCOMSON.