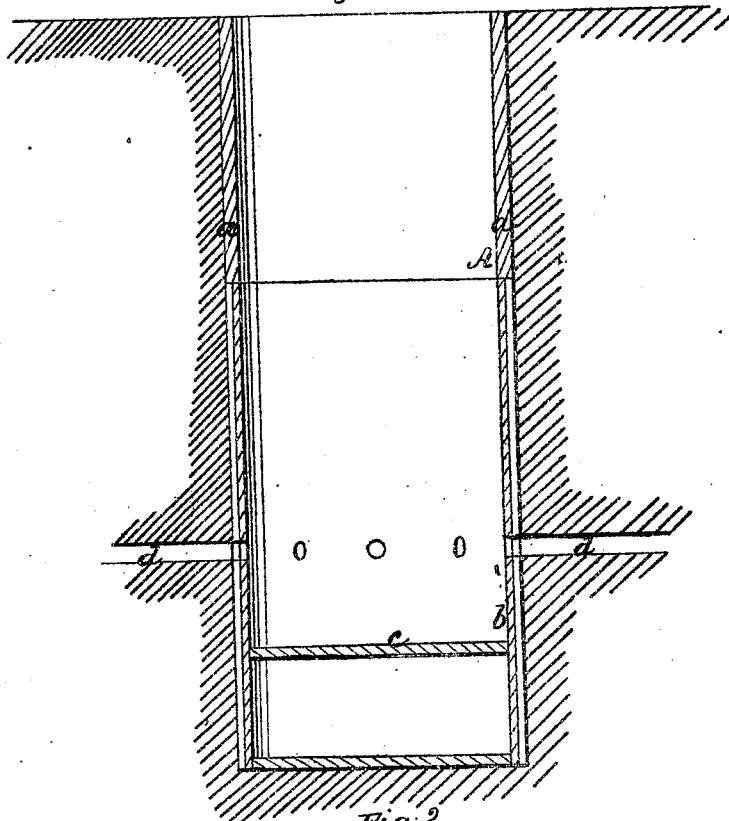
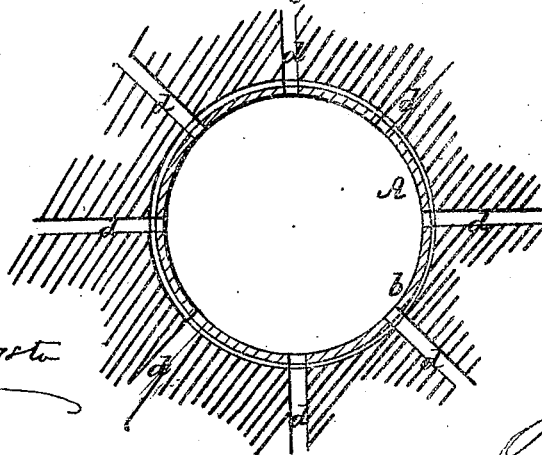


*P. Casamajor,*  
*Mode of Operating Oil Wells,*  
*No. 50,902. Patented Nov. 14, 1865.*

*Fig. 1*



*Fig. 2*



*Witnesses*  
*M. M. Livingston*  
*Chas. C. Plaff.*

*Inventor;*  
*P. Casamajor*

# UNITED STATES PATENT OFFICE.

PAUL CASAMAJOR, OF NEW YORK, N. Y.

## IMPROVED MODE OF OPERATING OIL-WELLS.

Specification forming part of Letters Patent No. 50,902, dated November 14, 1865.

*To all whom it may concern:*

Be it known that I, PAUL CASAMAJOR, of the city, county, and State of New York, have invented a new and Improved Mode of Operating Oil-Wells; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical central section of this invention. Fig. 2 is a horizontal section of the same, the plane of section being indicated by the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The usual method of operating oil-wells is to sink a well of a diameter of four inches, (more or less,) and after tubing the same to raise the oil by suitable pumps. By this method only that oil is reached which is inclosed in crevices that are pierced by the well, and in order to reach all the oil in a certain tract of land it is necessary to sink a large number of wells.

This invention consists in extending from a central vertical main well a series of radiating drills in a horizontal or inclined position in such a manner that a communication is effected between the several crevices situated outside the main well and not otherwise in communication therewith, and all the oil contained in a certain tract of land can be collected in the main well and raised by one and the same pump without the necessity of sinking a large number of wells and removing the pump from one well to the other.

A represents a well, which, however, is made of a much larger diameter than that generally given to oil-wells, and which will have to be

dug out or otherwise produced by suitable machinery. The upper portion of this well, which is supposed to pass through slate-rock, is protected by planks *a*, to prevent the ground from tumbling in, and its lower portion is lined with a crib, *b*, of cast-iron or other suitable material, which may be provided with suitable ribs to keep it properly in the center of the well, or which may be steadied by other suitable means. The well extends through the said rock containing the oil, and in order to reach such crevices which are not struck by the well I erect a platform, *c*, at a suitable height above the bottom of the well to enable the men to stand on, and then I extend a series of radiating drills, *d*, in a horizontal or inclined direction from the well A, as shown in Fig. 2 of the drawings. These radiating drills may be continued to any desired distance from the main well, and by the same a communication is opened between distant crevices and the well, and the oil contained in an extensive tract of land can be collected in one and the same well.

Suitable galleries may be dug in the side of the main well to protect the workmen in drilling the radiating holes, and the operation of drilling these holes may be effected by hand or by suitable machinery.

A pump placed in the main well serves to raise the oil in the ordinary manner.

I claim as new and desire to secure by Letters Patent—

The within-described method of operating oil-wells by extending from the main well A a series of radiating drills or channels, *d*, in a horizontal or inclined direction, substantially as and for the purposes set forth.

P. CASAMAJOR.

Witnesses:

M. M. LIVINGSTON,  
C. L. TOPLIFF.