W. C. PARKER.

Apparatus for Reducing Crude-Oil.

No. 169,189. Patented Oct. 26, 1875.

Fig. 1

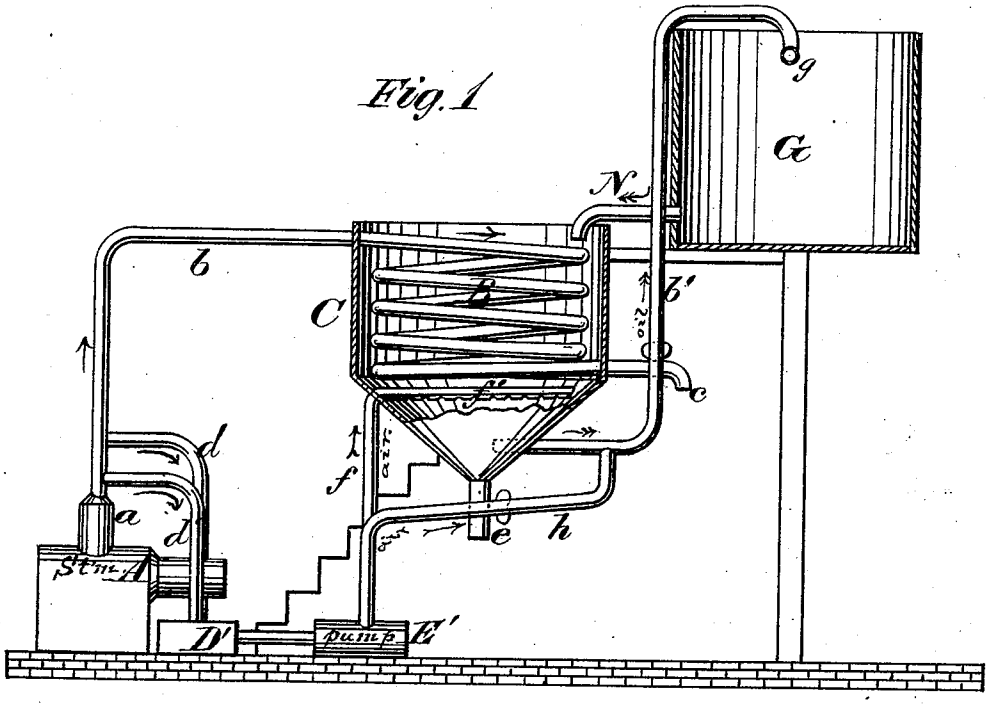
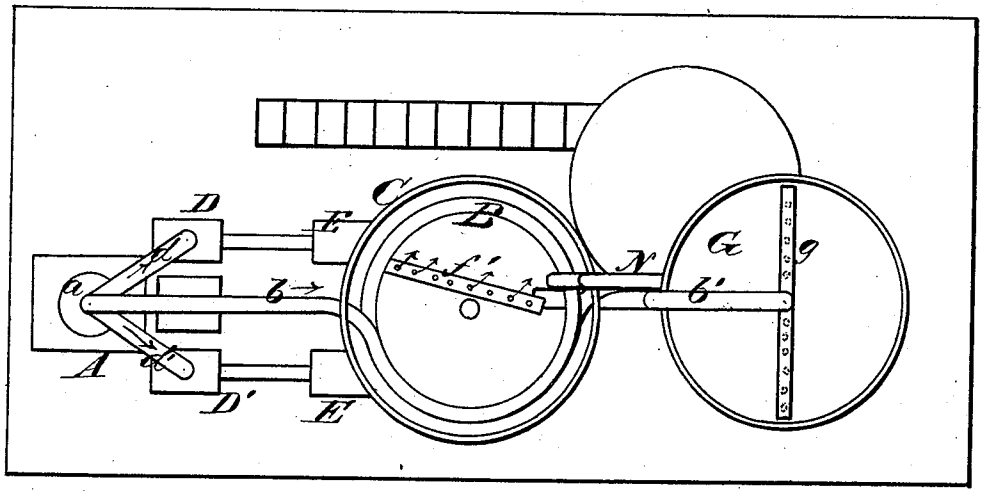


Fig. 2



WITNESSES

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WILLIAM C. PARKER, OF FRANKLIN, PENNSYLVANIA.

IMPROVEMENT IN APPARATUS FOR REDUCING CRUDE OIL.

Specification forming part of Letters Patent No. **169,189**, dated October 26, 1875; application filed September 11, 1875.

To all whom it may concern:

Be it known that I, W. C. PARKER, of Franklin, in the county of Venango and State of Pennsylvania, have invented a new and valuable Improvement in Process for Reducing Crude Oil; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my device, and Fig. 2 is a plan view of the same.

This invention has relation to means for making lubricating-oil for machinery and other purposes; and the nature of my invention consists in an apparatus of novel construction whereby crude oil can be economically reduced without a process of distillation, as will be understood from the following description.

In the annexed drawings, A designates a steam-generator, from the dome *a* of which a pipe, *b*, leads to a coil, B, in a receiver, C. The coil terminates in a cock, *c*, which will allow the escape of the steam, and also the water of condensation. The receiver C is suitably supported above the steam-generator, and its funnel-shaped bottom terminates in a draw-off pipe with a cock, *e*, in it. Two pipes, *d d'*, form communications between the steam-pipe *b* and engines D D'. The engine D operates an air-pump, E, which forces air into the receiver C through a pipe, *f*, the horizontal portion *f'* of which is in the lower portion of said receiver, and is thickly perforated. The engine D' operates an air-pump, E', which communicates with a pipe, *b'*, by means of a pipe, *h*, which pipe *b'* leads from the bottom of the receiver C to a perforated spray-pipe, *g*, at the upper end of a supply-reservoir, G, which is in a plane above said receiver. The steam in the coil B is for the purpose of heating the oil in the receiver C. The air-pump E forces air through the perforated pipe in the bottom of the receiver, and thus agitates the oil therein, and facilitates the evaporation of the most volatile parts thereof. The oil which is forced, by the air-pump E', through pipes *h b'* into the reservoir G is conducted at pleasure back into the receiver C by means of a pipe, N.

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

An apparatus for making lubricating-oil without distillation, consisting of the steam-generator A, air-pumps E E', coil B, and jet-pipe *f'* in receiver C, and pipes *h b' g* N and reservoir G, all combined substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM C. PARKER.

Witnesses:

J. A. O'DELL,

THOS. ELLIS.