

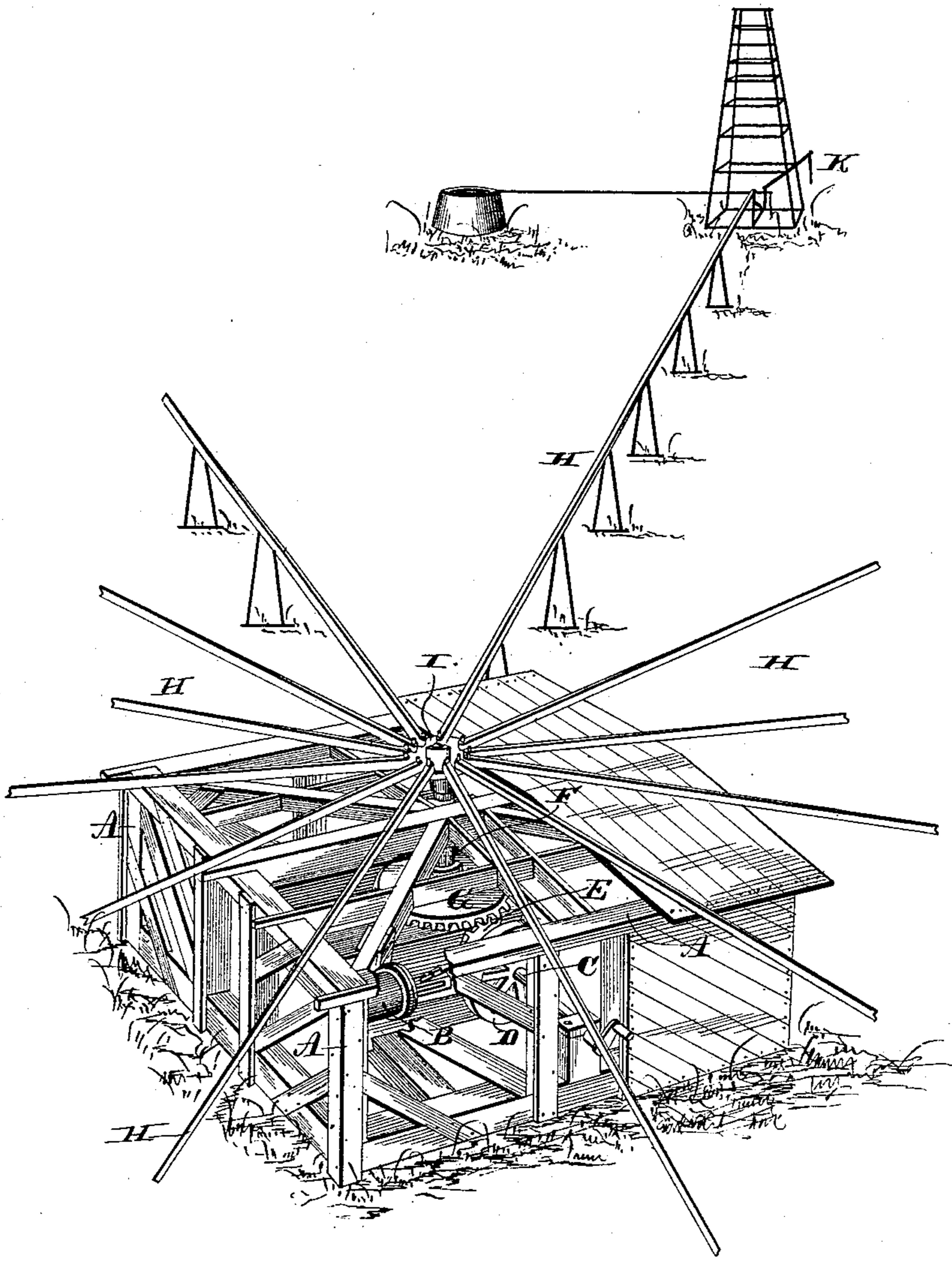
(No Model.)

G. ALLEN.

DEVICE FOR TRANSMITTING MOTION IN OIL PUMPING APPARATUS.

No. 332,318.

Patented Dec. 15, 1885.



WITNESSES
Geo. F. Downing
Albert Popkins

INVENTOR
George Allen
B. Sargent & Sargent
Attorney

UNITED STATES PATENT OFFICE.

GEORGE ALLEN, OF FRANKLIN, PENNSYLVANIA.

DEVICE FOR TRANSMITTING MOTION IN OIL-PUMPING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 332,318, dated December 15, 1885.

Application filed November 12, 1885. Serial No. 182,649. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ALLEN, of Franklin, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Transmitting Motion in Oil-Pumping Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in transmitting motion in oil-pumping apparatus. Hitherto it has been customary to locate the engine or other driving-power in a house or on a foundation by itself, with the horizontal shaft and band-wheel located fifty feet (more or less) therefrom, the pull-wheel occupying a position on still another support some twenty feet from the band-wheel. To protect the working parts of the machinery from the weather, it has been customary to build a house over the plants, and to cut holes through its sides to allow the pump-operating rods to pass through. Apart from the general inconvenience and extra expense incurred by scattering the several parts over so great an extent of ground and building a house sufficiently large to cover them, the freedom with which the pump-actuating rods might otherwise be laterally shifted has been materially interfered with.

The object of my present invention is to provide a compact and economical arrangement of the engine, drive-shaft, pull-wheel, and pump-actuating rods, whereby a single foundation and supporting-frame shall serve at the same time as a house-frame and a support for the engine-shaft and pull-wheel, and which will admit of the free lateral movement of the pump-actuating rods.

With these ends in view my invention consists in certain features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

The accompanying drawing represents the improved arrangement of parts as set up for use, the covering of the house being partially broken away.

A represents a heavy frame-work, girded and braced by a sufficient number of beams and braces to make it steady and strong. The roof-timbers of the frame-work preferably have

but little slant, and the entire frame is covered by roofing and siding, and provided with suitable entrances.

B represents an engine located in the house above described; C, the engine-shaft, provided with the fly-wheel D and bevel gear-pinion E; and F represents the upright shaft for driving the pump-actuating rods. The shaft F is preferably located at the center of the house, and extends upwardly through the apex of the roof. It is provided with the bevel gear-wheel G, meshing with the pinion E, and at its upper end, above the roof, with a crank, eccentric, or other equivalent device for actuating the rods H. The pump-actuating rods H may either be loosely secured on the wrist-pin of the crank, or they may be secured to a wheel, I, loosely mounted on the wrist-pin of the crank; or they might be attached to an eccentric strap or ring loosely mounted on an eccentric wheel secured to the shaft; or they might be secured to one or more oscillating wheels, *i*, the latter being supported on the roof and connected with the crank by short pitmen. From their points of attachment to the crank or shaft the rods H lead laterally in any desired directions to the oil-wells K, and may be freely shifted to the right or left, as circumstances may require.

It is evident that the frame-work may be constructed in a great many different forms, and that the shaft F may be located in other positions than the center, and that the relative positions of the engine, engine-shaft, and upright shaft may be changed without departing from the spirit and scope of my invention; hence I do not wish to limit myself strictly to the construction herein set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pump-driving shaft extending through the roof of a house, and having the pump-actuating rods attached thereto above the roof, substantially as set forth.

2. A supporting-frame for the engine, engine-shaft, and pump-driving shaft, adapted at the same time to form a house-frame, the end of the pump-driving shaft extending above the roof of the frame, for the purpose substantially as set forth.

3. The combination, with a supporting

frame-work adapted to be covered by a roof
and siding, and an engine located within the
frame-work, of an upright shaft adapted to
be driven by the engine, the said upright shaft
5 extending outwardly through the roof, and a
crank or its equivalent secured to the upper
end of the shaft, adapted to actuate pump-
operating rods, substantially as set forth.

4. The combination, with a supporting-
10 frame for the engine-shaft and pump-driving
shaft, adapted at the same time to form a
house-frame, the end of the pump-driving

shaft extending above the roof of the frame, of
pump-actuating rods connected with the shaft
through the medium of an oscillatory wheel, 15
substantially as set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

GEO. ALLEN.

Witnesses:

E. D. ALLEN,
E. H. LAMBERTON.