A. STRAND.

OILING SYSTEM FOR GASOLENE ENGINES.

APPLICATION FILED AUG. 26, 1914.

1,193,200. Patented Aug. 1, 1916.

Fig. 1.

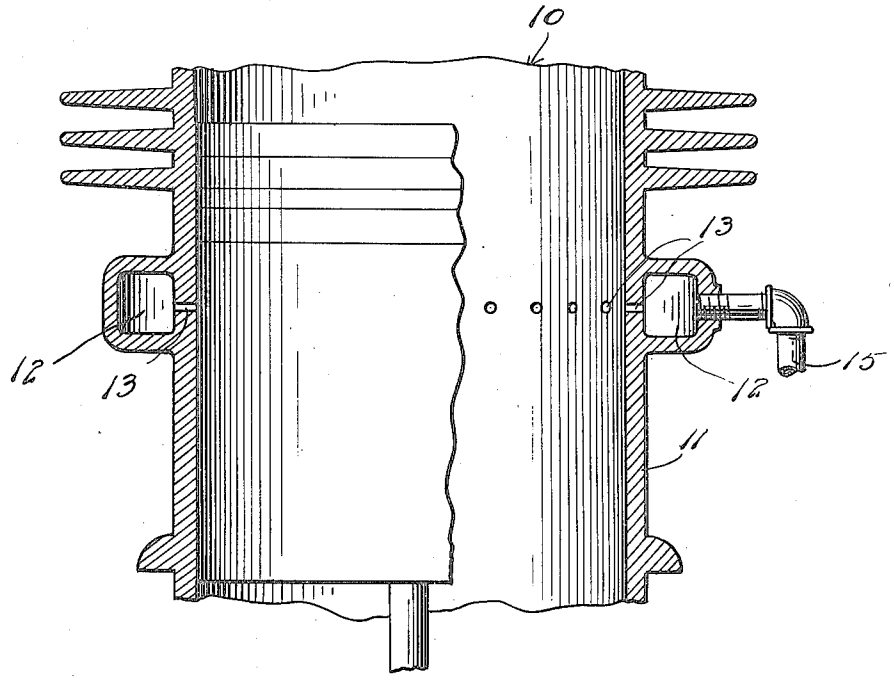
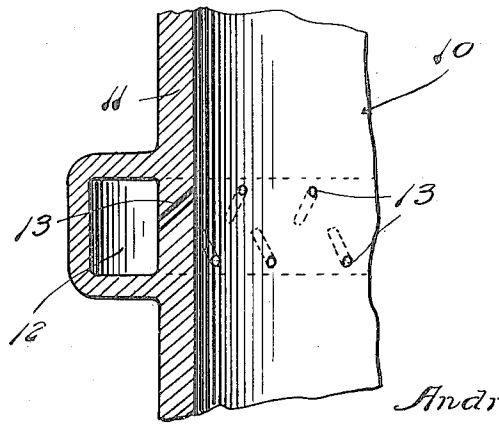


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

ANDREW STRAND, OF ST. PAUL, MINNESOTA, ASSIGNOR TO JOERNS MOTOR MANUFACTURING CO., OF ST. PAUL, MINNESOTA.

OILING SYSTEM FOR GASOLENE-ENGINES.

1,193,200. Specification of Letters Patent. Patented Aug. 1, 1916.

Application filed August 26, 1914. Serial No. 858,693.

To all whom it may concern:

Be it known that I, ANDREW STRAND, a citizen of the United States of America, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Oiling Systems for Gasolene-Engines, of which the following is a specification.

My invention relates to certain new and useful improvements in oiling systems for gasolene engines and has for its object the provision of an improved method of supplying oil to the interior of an engine cylinder and consists essentially of an annular oil chamber formed in the wall of the cylinder and provided with a number of small openings connecting said chamber with the interior of the cylinder. Oil is fed to the chamber by an improved means such as a pump as is fully shown by the accompanying drawings in which:

Figure 1 is a sectional view showing my oiling system as applied; and Fig. 2 is a similar view of a modification thereof.

Throughout the specification and drawings in which like reference characters denote like parts, 10 denotes the cylinder of a gas engine of either the water or air cooled type. In the wall 11 of the cylinder an annular chamber 12 is formed communicating with the interior of the cylinder by means of the small openings 13. These openings preferably open into the cylinder at a point below the top of the lowermost position of the top of the piston. By placing the openings at this level I prevent the force of the explosion from entering the chamber and forcing the oil back through the pipe 15 by which it is admitted. Suitable means for feeding the oil to the chamber through the pipe such as an oil pump (not shown) may be supplied, the oil preferably being fed under pressure. In the alternative form shown the openings 13 instead of entering the cylinder at right angles enter at an angle and are set in staggered relation.

Having now described my invention what I claim and desire to secure by Letters Patent is:

1. The combination with an internal combustion engine having a plurality of oppositely inclined radial openings in the cylinder wall, of means for feeding oil to said cylinder through said openings under pressure.

2. The combination with an internal combustion engine, having a plurality of alternately and oppositely inclined radial openings disposed in staggered relation to each other and formed in the cylinder wall, of means for feeding oil to said cylinder through said openings under pressure.

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

ANDREW STRAND.

Witnesses:
G. H. GREAVES,
FRED JOERNS.