

N^o 20,123



A. D. 1894

Date of Application, 22nd Oct., 1894

Complete Specification Left, 19th July, 1895—Accepted, 24th Aug., 1895

PROVISIONAL SPECIFICATION.

An Improved Gas and Petroleum Motor.

I, THOMAS RICHARD SHILLITO of 89 Chancery Lane London, W.C., Engineer, do hereby declare the nature of this invention, a communication to me from abroad by The Leipziger Dampfmaschinen und Motoren Fabrik, of Leipzig-Plagwitz in the German Empire, to be as follows:—

- 5 This invention relates to a gas or petroleum motor in which two pistons reciprocate in a single cylinder with the combustion space between said pistons. The movement of each piston is transmitted through a piston rod and oscillating double lever to a crank shaft located below the cylinder, the two cranks being connected together by a rod. The cylinder has an inlet and outlet for the gases.
- 10 The cylinder and the working parts are enclosed in a casing closeable at the two ends by means of covers and when these are removed the cylinder and working parts are accessible. The bottom part of the casing is supplied with a lubricant which is so driven about by the working parts as to lubricate automatically these parts and the cylinder whilst the escape of disagreeable smells into the surrounding
- 15 space or engine room is prevented.

Dated this 22nd day of October 1894.

THOMAS R. SHILLITO.

COMPLETE SPECIFICATION.

An Improved Gas and Petroleum Motor.

- 20 I, THOMAS RICHARD SHILLITO of 89 Chancery Lane, London, W.C., Engineer, do hereby declare the nature of this invention, a communication to me from abroad by The Leipziger Dampfmaschinen und Motoren Fabrik, of Leipzig-Plagwitz in the German Empire, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following
- 25 statement:—

The object of this invention is on the one hand to prevent the escape from gas and petroleum motors of disagreeably smelling gases into the surrounding space or engine room and on the other hand to enable all bearings and pistons to be automatically lubricated by oil supplied to the bottom of the motor casing and

30 dashed about therein by the working parts so as to effect such lubrication.

The invention mainly consists in arranging a gas or petroleum motor, having two pistons working in a single cylinder, in a closed casing. Such a motor is shewn in Fig. 1 of the drawing in end elevation and in Fig. 2 in side elevation.

- A is the motor casing so formed as to enclose the complete motor comprising two
- 35 pistons *a* working in a single cylinder B with the combustion space *b* between said pistons. The movement of each piston is transmitted through a piston rod *d*, an oscillating double lever *c* and a connecting rod *d*¹ to a crank shaft K located below the cylinder and carried in bearings, one in each side of the motor casing A, which latter is provided at both ends with openings for ready access to the working parts
- 40 of the motor, and readily closeable by covers *f*. *i* is the inlet and outlet for the gases into and out of the cylinder. *z* is the cooling water space.

[Price 8d.]

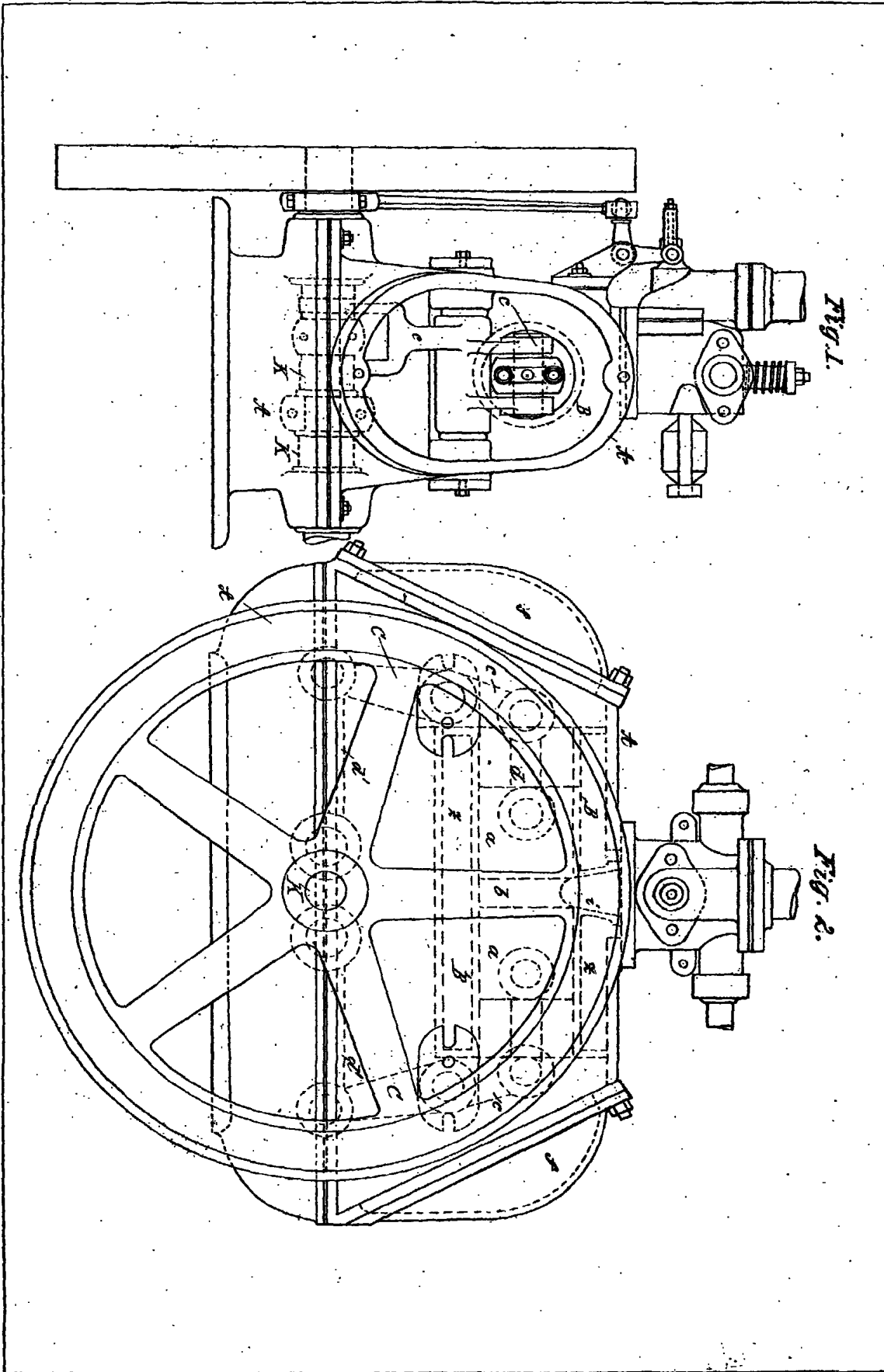
Shillito's Improved Gas and Petroleum Motor.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

In a gas or petroleum motor in which two pistons *a* work in a single cylinder B with a combustion space *b* between said pistons and transmission of the piston 5 movement through piston rods *d*, levers *c* and connecting rods *d'* to a crank shaft located below the cylinder, the motor casing A which completely encloses said cylinder, levers, rods and crank shaft and which is provided at both ends with openings readily closeable by covers *f* and allowing access to the working parts, for the purpose specified, substantially as described and shewn. 10

Dated this 19th day of July 1895.

THOMAS R. SHILLITO,
89 Chancery Lane, London, W.C.



[This Drawing is a reproduction of the Original on a reduced scale.]