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PROVISIONAL SPECIFICATION.

Improvements in Pumps for Inflating Pneumatic Tyres and the like.

I, ETIENNE SCLAVERAND, of 6, Rue Caffarelli, Paris, in the Republic of France, Engineer, do hereby declare the nature of this invention to be as follows:—

This invention relates to improvements in pumps chiefly adapted for use in inflating pneumatic tyres.

When air is pumped directly into a receiver (such as a tyre) with a pump it is very important to be assured that the pressure in the receiver is the same as that in the pressure-gauge chamber with which the pump is provided. To this end I provide at the side of the pressure-gauge chamber a space or chamber into which the air is forced from the pump and wherein it is retained by means of a valve. Two tubes or passages pass from the said space, one passage being in communication with the air chamber or receiver and the other with the pressure-gauge chamber.

In carrying out my invention I advantageously pivot the pump at its lower end in a bearing which can itself be pivoted to a bolt or pin in a stand or support. At the base of the pump body I provide a space or chamber which communicates with the pressure-gauge.

The said chamber communicates with the pump cylinder by a nozzle which is furnished with a valve. This valve consists of a conical plug fitted with leather packing and carried on a rod having its end flattened, the said flattened end passing into guide slots in a plug screwed into the nozzle.

The air compressed by the pump enters the lower space or chamber in the same whence it passes to the tyre or the like to be inflated. The pressure of the air in the chamber and consequently that of the air in the pneumatic tyre whilst it is being inflated is read off on the pressure-gauge.

The pressure-gauge may be fitted to the lower chamber in the pump either above or below the outlet from the said chamber to the tyre or the like.

The piston which I advantageously employ has a cup leather resting on a disc. The piston can also be fitted with a ring of the same diameter as the inside of the pump cylinder so as to form a guide or circular groove and notches or slots around the periphery of the discs or ends of the ring providing a free passage for the air.

In a modified construction of my improved inflation pump the lower portion of the pump body carries a socket at right angles to its axis. A rod or support formed in two parts hinged together is inserted into the socket and serves as a support during the operation of the pump, when the two parts are made rigid and pulled into the socket, a collar on the rod striking against the end of the socket so as to stop the rod when it is in such a position that it projects to the same extent on each side of the pump cylinder. When the pump is not in use the rod is pushed back through the socket until the hinge has passed through the said socket when

[*Price* 8*d.*]