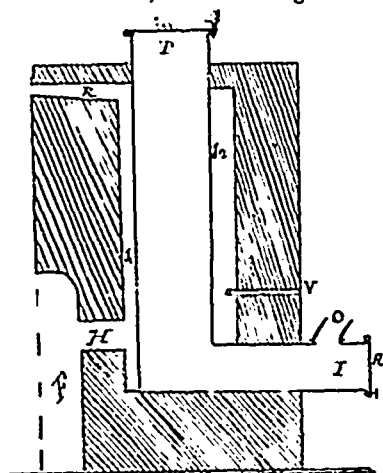


The shape of the retort is P I, and in order to commence operations it is charged with charcoal up to the mark J1 by means of the hand door M, and the hot gases from



allowed to play about the retort until it assumes a cherry red color, which is ascertained by means of the spy-hole V.

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When the retort assumes this color it is then ready to be put to work, which is done by simply filling it with wood by means of the hand door M up to where J2 is marked on the cut, when due to the high temperature of the retort, the wood is decomposed into its volatile products which gases rise to the top of the retort P, from which there is no outlet there, and due to their own pressure have then to return and pass over the highly heated surface of charcoal which exists in the retort below J1, where they are decomposed into the rich stable gas Riche, the reaction being accomplished without the introduction of any air, consequently absence of nitrogen, and which Riche gas escapes through the opening O pure and rich

to the gasometre, ready to be used in the form or manner required.

To discharge the retort it is done by simply withdrawing the charcoal through the man-door A, and to keep the retort in continuous working it only requires to be recharged at M.

One man is able to and looks after a generator of six retorts quite easily, and even

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