A COMBINED ENDO-TRACHEAL PUMP AND SUCTION APPARATUS.
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Most anaesthetists will agree that it would be advantageous to have one universal machine with which all their work could be done. At the present time, in order to cope with their varied needs, anaesthetists must possess, amongst other things, a gas and a Junker's bottle as an emergency standby. The machine illustrated is an attempt to combine the functions of all the foregoing. As can be seen from the plate, a stout board carries—

1. A modified Reavell-Moseley electric motor with direct-coupled rotary pump. The motor is specially wound to operate on direct or alternating current from 100—50 volts. This range covers practically every main supply in the United Kingdom.

2. A small chloroform bottle with regulator as used on the latest pattern Boyle’s gas and oxygen machine.

3. A large ether bottle with the same type of regulator and mounted on an extension of the heater to prevent freezing.


5. A heater with regulator and thermometer. The writer is not convinced of the necessity for this, but those who are can obtain vapour delivered from the exit-tube at any temperature from that of the theatre to 130°F.

6. A rheostat for regulating the speed of the motor, and consequently the pressure.

7. A large suction bottle for blood, pus, etc.

8. Filters, switches, etc.

The different components are connected with special pressure tubing made from a composition which does not perish. The tubing is of such thickness that kinking is impossible, and that on the suction side is quickly detachable for boiling between each case.

The above set is portable and is provided with a wooden cover and strap, but if intended for hospital work the board is mounted on a metal stand fitted with wheels and carrying cylinders of nitrous oxide and oxygen. In this form any variety of vapour anaesthetic can be administered and powerful suction can be obtained simultaneously when necessary.