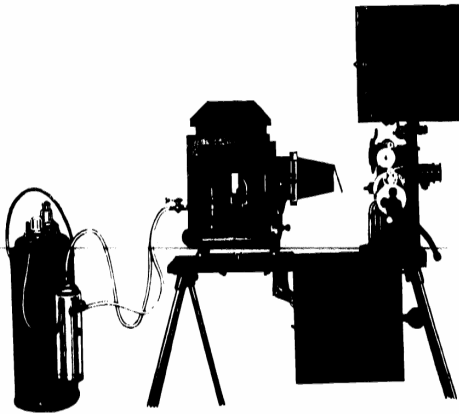


EDISON KINETOSCOPES

PORTABLE GAS-MAKING OUTFIT
(GOODYEAR PATENT)



UNDERWRITERS' MODEL, TYPE B, PROJECTING KINETOSCOPE
EQUIPPED WITH NEW GENERATOR AND SATURATOR

EDISON MANUFACTURING COMPANY

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PORTABLE GAS-MAKING OUTFIT EDISON OXYGEN GENERATOR

The Edison Oxygen Generator and Saturator have been designed to produce a complete generating outfit to take the place of oxygen and hydrogen gas sold in cylinders. This apparatus produces the gases automatically, in a safe, simple and direct manner without the use of heat or excessive pressure and without the necessity of any knowledge of chemistry on the part of the operator.

The Oxygen is produced by the reaction between water and a compound of which Sodium Peroxide is the principal ingredient. This compound in its most compact and convenient form is known as Oxone, though the Generator will work equally well with another form of the compound known as Oxalite.

Oxone is a hard stone-like substance of small volume, and if protected from moisture may be kept for any length of time without risk of deterioration or decay.

It is packed in sealed tin boxes with screw tops to protect it from dampness. The yield of Oxygen averages 2.2 cubic feet per lb. of Oxone at normal temperature and pressure, which corresponds to 322 times the volume of the body. The Oxygen Generator illustrated herewith contains 3 lbs. of the compound when fully charged, and therefore generates 6.6 cubic feet of Oxygen, which is sufficient for an entertainment of from an hour to an hour and a half or longer according to the size of the calcium light jet used.

The generators are provided with regular valves set to deliver Oxygen at a uniform pressure of 2.5 lbs. per square inch.

This pressure is attained without the use of a water column, which makes the apparatus extremely compact. This pressure enables two lights to be operated simultaneously, which is a great convenience where two lanterns are used or where a Motion Picture and a song or stationary picture are both exhibited at the same time.

The generation of gas is proportionate to the consumption and the apparatus is entirely automatic in its action. The Oxygen obtained by this method is over 99 per cent. pure, the cost is nominal, while the portability of the apparatus renders it practical where other portable cylinders of compressed gases, or complicated paraphernalia of other methods would be out of the question.

Knobs, rubber bags, wash bottles, pumps and exhausts are entirely done away with. There is nothing to do but to put in the Compound and water, attach the gas outlet to the Gas Saturator and adjust the flame by the needle valve on the Saturator. The apparatus does the rest.

THE SATURATOR

This saturator or effluxor was specially designed to produce an inflammable vapor to take the place of hydrogen or illuminating gas for use in calcium light jets for projection purposes and for blow pipe work generally.

The saturator is attached to the side of the generator so as to be in a convenient position when the apparatus is in use. Although it is made of readily detachable parts, it is nevertheless a complete unit. It may also be used as a saturator for other gases, such as acetylene from cylinders if the latter is provided with a simple pressure reducing or reducing valve.

The saturator is a polished nickel-plated brass cylinder forming a chamber filled with aluminum metal which is saturated with calcium chloride or 8 per cent. solution.

When the apparatus is in use Oxygen flows through an incoming arrangement of coil within the Saturator chamber, passes through a condenser chamber at the bottom of the Saturator and thence returns to a double valve controlled by two thumb screws. One of the thumb screws permits a limited amount of Oxygen to pass into the bottom of the Saturator Chamber and thus the vapor from the Ether, which is conducted by a tube attached to the top of the Saturator to the Calcium Light Jet. The other thumb screw controls the flow of pure Oxygen, which has been freed from water vapor by passing through the coils within the Saturator. It is then conducted by another tube to the other side of the Calcium Light Jet.

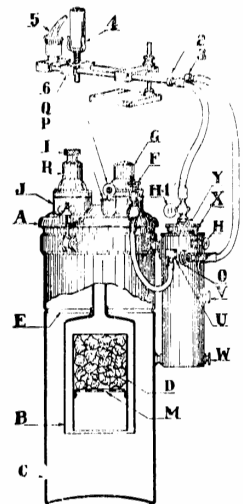
The Saturator holds approximately 4 lbs. of Saturated Ether, which is sufficient for 20 hours continuous use of Calcium Light Jets.

The upper end of the Saturator is provided with a large removable cap which facilitates the changing of the gas and the filling of the chamber with the gas for the removal of the gas.

The above and nothing with it is a complete outfit for use in the same manner as the other apparatus. It is made of the highest quality materials and is of the most perfect design. It is made of the most perfect materials and is of the most perfect design. It is made of the most perfect materials and is of the most perfect design.

Patent No. 1,111,111, 1,111,112, 1,111,113, 1,111,114, 1,111,115, 1,111,116, 1,111,117, 1,111,118, 1,111,119, 1,111,120, 1,111,121, 1,111,122, 1,111,123, 1,111,124, 1,111,125, 1,111,126, 1,111,127, 1,111,128, 1,111,129, 1,111,130, 1,111,131, 1,111,132, 1,111,133, 1,111,134, 1,111,135, 1,111,136, 1,111,137, 1,111,138, 1,111,139, 1,111,140, 1,111,141, 1,111,142, 1,111,143, 1,111,144, 1,111,145, 1,111,146, 1,111,147, 1,111,148, 1,111,149, 1,111,150, 1,111,151, 1,111,152, 1,111,153, 1,111,154, 1,111,155, 1,111,156, 1,111,157, 1,111,158, 1,111,159, 1,111,160, 1,111,161, 1,111,162, 1,111,163, 1,111,164, 1,111,165, 1,111,166, 1,111,167, 1,111,168, 1,111,169, 1,111,170, 1,111,171, 1,111,172, 1,111,173, 1,111,174, 1,111,175, 1,111,176, 1,111,177, 1,111,178, 1,111,179, 1,111,180, 1,111,181, 1,111,182, 1,111,183, 1,111,184, 1,111,185, 1,111,186, 1,111,187, 1,111,188, 1,111,189, 1,111,190, 1,111,191, 1,111,192, 1,111,193, 1,111,194, 1,111,195, 1,111,196, 1,111,197, 1,111,198, 1,111,199, 1,111,200, 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DIRECTIONS FOR OPERATING THE GENERATOR



Read fully and carefully these directions before operating apparatus.

Put the desired quantity up to 3 lbs. of the compound in the apparatus. The average quantity of gas generated is 2.2 cubic feet per lb. or 60 litres of free gas at ordinary temperature.

To charge the apparatus, loosen the thumb nuts "J" and remove the top "A" of the Generator with the attached bell "B" from the outer tank "C" and take out the container "D." Place the desired amount of Compound upon the perforated support "M" in the Container "D." Now place the Container in the Bell "B," where it should be securely fastened by the catches at the bottom of the Bell.

Fill the Outer Tank "C" with water up to the water mark "L."

When the Bell "B" is placed in the water in the tank "C," the water should stand about 2 inches below the top rim of the tank "C."

Close the Needle Valve "E," which is attached to the side of the pressure Regulator "G."

Close the Pressure Controlling Valve "R" by turning the thumb screw "I" to the right.

Then place the Bell "B" in the Outer Tank "C" and clamp it in place by the thumb nuts "J." No great amount of force will be required to make a tight joint, as the rubber gasket on the top "A" is very large and elastic.

To start the Generator, first open the Controlling Valve "R" by turning the thumb screw "I" to the left, so that some gas will cause the generation of gas to commence, and then close the Needle Valve "E" with your thumb on the hose nipple on the Needle Valve "E." Then the pressure will build up, and it will be necessary to open the Needle Valve "E" for a few seconds to allow the gas to pass out of the upper part of the Bell "B."

The Generator should be used in an upright position and not laid on its side, though it may be tipped as would be the case when used on a boat for operating searchlights, etc.

After using, thoroughly wash the Tank "C" and the parts contained within the Bell "B."

The apparatus should be thoroughly wiped off and dried before being packed for shipment or transportation.

Cleanliness is the most important point in the care of any chemical apparatus.

If any compound remains after the use of the apparatus, leave it in the Container "D," after the latter has been washed and dried, or return it to a sealed tin can such as it came in. Do not keep the compound in a wooden box, or let it come in contact with anything inflammable.

OXONE

Oxone is a compact compound which on contact with water generates pure Oxygen Gas in the same manner as calcium carbide in water produces acetylene gas.

Oxone is a fused mass—a preparation of Fused Sodium Peroxide of the specific gravity 2.13; it is hard, but not brittle, and capable of being cast into any convenient shape; it can be easily transported without detriment or any mechanical or chemical change, and can, when protected from moisture, be stored without any danger or risk of deterioration.

Oxone furthermore has the property of absorbing carbon dioxide and moisture, qualities which, combined with an oxidizing ability, make it an ideal disinfectant and air purifier.

CAT. No.	CODE.	PRICE.
19128. Edison Oxygen Generator and Saturator (without burner)	<i>Staatmees</i>	\$42.00
19129. Edison Generator (only)	<i>Staatriem</i>	32.00
19130. Edison Saturator (only)	<i>Staatstuk</i>	13.00
19092. Dynamic High Power Calcium Burner	<i>Tanessa</i>	15.00
19097. Oxone (Six Cartridge cakes in tubes)	<i>Staatpen</i>	1.35
19124. Sulphuric Ether (one lb. cans)	<i>Unfusible</i>	1.00
19125. Special Limes (per doz.)	<i>Unfusible</i>	1.00
19126. Limes (sealed glass tubes) per doz	<i>Yellow</i>	1.50
19127. Large Limes, 1 $\frac{1}{4}$ inches diam, per doz	<i>Tanoraad</i>	1.80

