March 10, 1931. M. P. OTTO 1,796,214

OZONIZER

Original Filed Dec. 5, 1927 2 Sheets-Sheet 1

Fig. 2

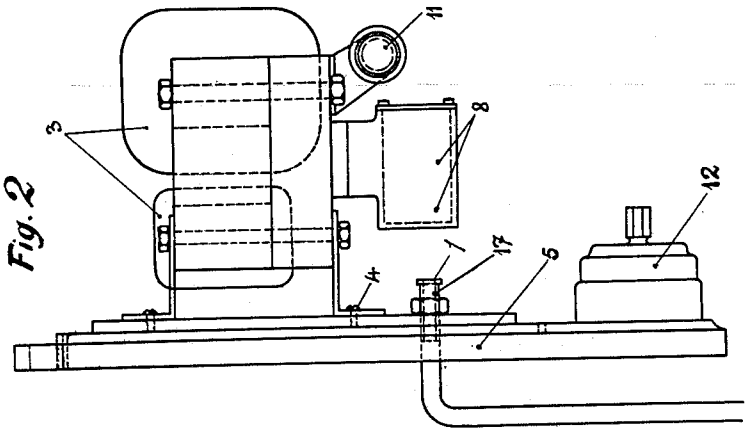
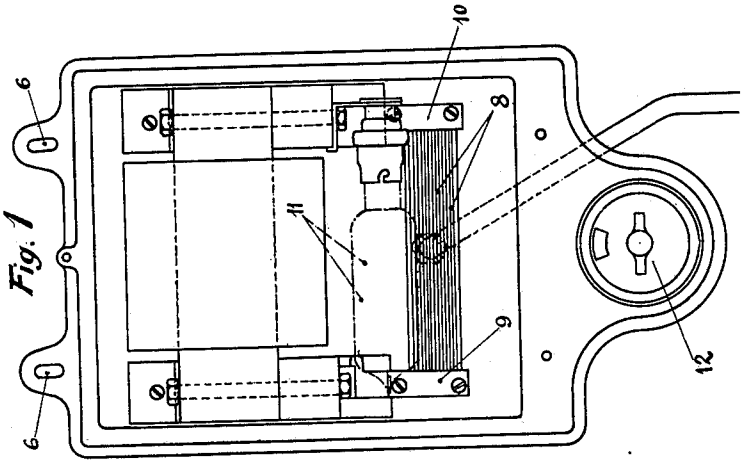



Fig. 1




MARIUS PAUL OTTO
INVENTOR:
By Otto Munk
his atty

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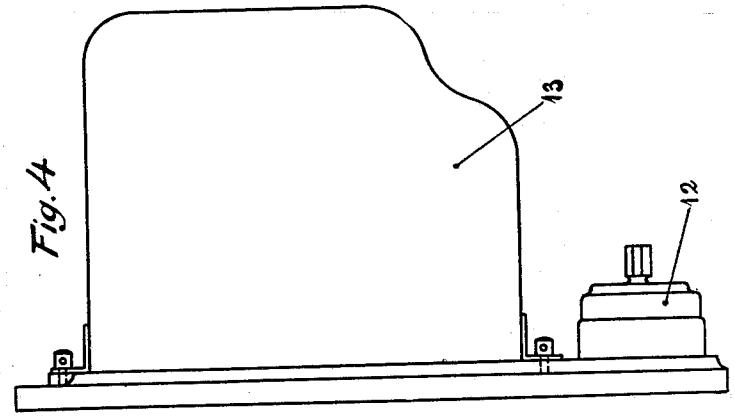



Fig. 4

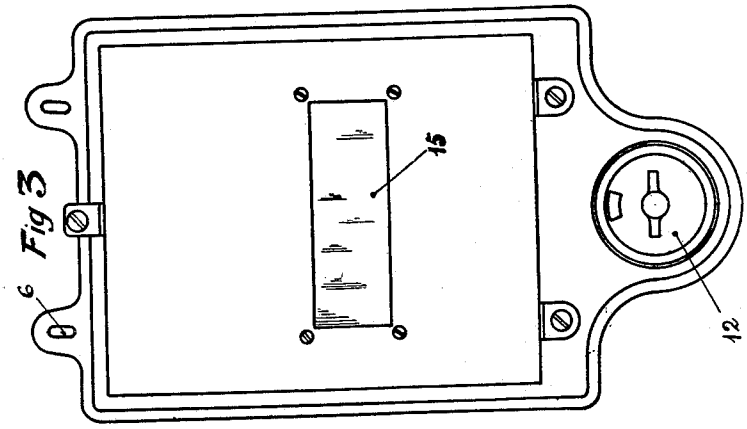



Fig 3

MARIUS PAUL OTTO
INVENTOR;
By Otto Thum
his atty

Patented Mar. 10, 1931 1,796,214

# UNITED STATES PATENT OFFICE

MARIUS PAUL OTTO, OF PARIS, FRANCE

## OZONIZER

Original application filed December 5, 1927, Serial No. 237,919, and in France November 9, 1927. Divided and this application filed February 8, 1929. Serial No. 338,419.

The object of the present invention is to improve ozonizers in such manner as to facilitate the mounting of an ozonizer unit and the effective supervision of the electric circuit of the transformer which supplies such ozonizer, whereby a commercial ozonizer is obtained which is convenient in use and easily supervised.

An ozonizer enabling the above object to be attained has the features disclosed in the following description and particularly set forth in the claims appended to the end of the description.

This application is a divisional application of my copending application filed December 5, 1927, Serial Number 237,919.

An ozonizer according to the invention is illustrated by way of example on the accompanying drawings, in which:—

Figs. 1 and 2 are respectively a front and a side elevation of the ozonizer, with the casing removed.

Figs. 3 and 4 are respectively a front and a side elevation of the ozonizer, with the casing in place.

The ozone generator 1 comprises a transformer 3 of known type the carcase of which is bolted on a plate 4, fixed itself to a panel 5, which can be mounted by means of eyes 6 on studs fixed to a wall.

The carcase of the transformer supports an ozonizing unit 8 mounted in a removable manner on high and low tension terminals 9, 10, and supplied with current by the transformer 3.

An electric indicating lamp 11 is also included in the circuit of the transformer and lights up every time that the circuit is closed and properly functions.

A switch 12 is included in the supply circuit of the transformer.

A casing 13 covers the transformer 3 and the ozonizing unit 8 and thus forms an internal chamber wherein the sparks of the ozonizing unit play and wherein the ozonized air formed collects. A glazed aperture 15 is provided in the casing 13 opposite the lamp 11 and enables the lighting up of such lamp and in consequence the functioning of the ozone generator, to be observed.

A nipple 17 opens into the internal chamber of the casing 13 and enables the ozonized air therein to be withdrawn, such air being then led by a pipe 18 to a mixing cock 2.

The mounting of the ozonizer unit on the transformer enables the manufacture of such ozonizer to be considerably simplified, such ozonizer unit being moreover easily accessible for repair, inspection or replacement.

At any instant the good functioning of the installation can be verified by observing the indicating lamp 11.

Claim:

In an ozone generator, the combination of a transformer, a casing enclosing said transformer and constituting a chamber for the formation of ozone, means for suspending the casing on a vertical wall, supports forming part of the transformer arranged at its lower part and forming high tension terminals of said transformer, a movable ozonizer block having its ends resting freely on said supports and its front and rear faces opening freely to the interior of the said casing to thereby facilitate the entrance of air into the ozonizer and the exit of ozonized air, retaining means movably mounted on said supports to prevent displacement of the ozonizer from its supports, a nipple disposed at the rear of the rear face of the ozonizer block and receiving the ozonized air and a switch controlling the transformer circuit and permitting the transformer current to be sent into the ozonizer block.

In testimony whereof I have signed this specification.

MARIUS PAUL OTTO.