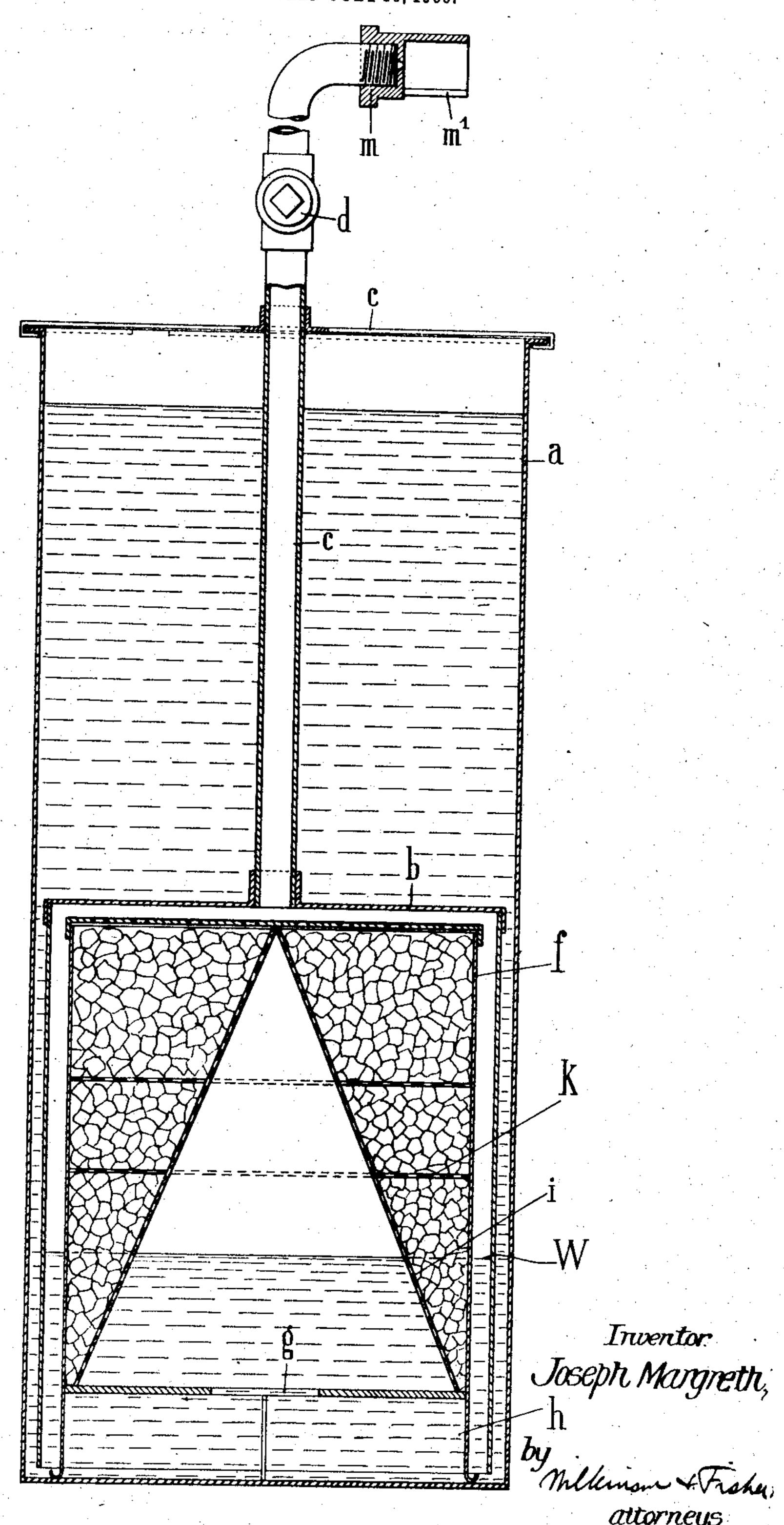
J. MARGRETH. ACETYLENE GAS GENERATOR. APPLICATION FILED JULY 16, 1906.



Witnesses A.B. Stelle Myron Helear

UNITED STATES PATENT OFFICE.

JOSEPH MARGRETH, OF BERGEDORF, NEAR HAMBURG, GERMANY.

ACETYLENE-GAS GENERATOR.

No. 834,831.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Joseph Margreth, hundred centimeters. manufacturer, a citizen of Switzerland, re- The carbid-receptacle f is in the bell b, 10 in the art to which it appertains to make and | somewhat above the base of the reservoir a, 65 use the same.

My present invention relates to a portable acetylene-generator which has very small dimensions in proportion to its capacity, and it 15 is possible, in common with these advantages, to use unprepared carbid without an overflow of gas taking place. This is obtained by ting of pyramidal or conical shape in a carbid-20 receptacle supported close to the casing of the water-reservoir, round which fitting the carbid is placed. The width of the base of 25 of the carbid-receptacle. The water can flow | the carbid in contact with the water becomes 80 the purpose of the sieve is not to render the an exceedingly constant generation of acety-30 theless, the water has here little opportunity | fall down into the mud underneath when the 85 of action in consequence of the peculiar position in which the carbid is placed. Moreover, an overflow of gas is avoided, for the reason | this case carry the carbid. that the space for the gas increases to a corwider.

section through the generator.

The gas-generator consists of a reservoir a. Having thus described my invention, what removed. The bell b is open below and pro- Patent of the United States, is— 45 like clamping-spring pushed in between these ported therein, and a carbid-receptacle within 1005 50 that the bell b can be taken out as soon as the tacle being provided with supporting-legs, 105 to the height of the bell b in such a way that the bell is only about half the height of the 55 reservoir. The latter is the height of the re- | stantially as described.

quired gas-pressure—thus about eighty to one

siding at Bergedorf, near Hamburg, Ger- said receptacle f consisting of a receptacle 5 many, have invented certain new and useful covered over above, but open below at g. 60 Improvements in Portable Acetylene-Gener- The upper lid is provided with openings for ators; and I do hereby declare the following the emission of gas, so that the gas generated to be a full, clear, and exact description of the . in the receptacle can escape through the pipe invention, such as will enable others skilled |c|. The base of the carbid-receptacle stands

> the like. The receptacle f may be held in the bell bby optional fastening devices which are not

> which can be arranged by means of feet h or

shown on account of clearness. A cone or a pyramid i, of wire-gauze or perforated sheet metal, is placed in the receptacle the arrangement of a vertical reticulated fit-|f| in such a way that only the space outside said pyramid can be filled with carbid. It is clear that with this arrangement only quite 75 small annular surfaces are in the first place attacked by the water in the lower part of the inserted fitting as well as its height the carbid-receptacle, and only later, when agree with the corresponding measurements; the lower layers are used up, the surface of unimpeded in a full current to the carbid, for gradually greater. It has been found that passage of the water difficult. Accordingly it | lene gas thus takes place. In order to preis also not made too small-meshed. Never- | vent the upper pieces of carbid being able to lower layers are used up, transverse pieces of metal k are put over the pyramid, which in

The burner has a simple sleeve m, which is 35 responding extent as the layers of carbid able to be screwed onto the gas-pipe, said 90 which become transformed into gas become sleeve being preferably provided with a slit m'. The purpose of the latter is to conduct The accompanying drawing is a vertical away water of condensation collecting in the i sleeve.

in which a bell b is arranged so that it can be -I claim as new, and desire to secure by Letters

vided above with an outlet-tap d. The bell 1. In an acetylene-generator, the combib is fastened in the reservoir a by a wedge- nation of a water-reservoir, a gas-bell supor, as shown in the figure, by fastening a said gas-bell, said carbid-receptacle being cross-bar e to the pipe c, which bar engages | composed of a vessel having imperforate under the flange of the reservoir a. The walls and openings at the bottom and top for flange is, however, cut away at one place, so the inflow of water and exit of gas, said recepcross-bar e is over the opening. The height and a perforated conical fitting located withof the reservoir a is proportioned relatively | in said receptacle and running from the center of the top thereof approximately to the circumference of the bottom thereof, sub2. In an acetylene-generator, the combination of a water-reservoir a gas-bell located therein, and a carbid-receptacle within said gas-bell, said receptacle being about half the 5 height of said water-reservoir, and said receptacle comprising imperforate walls, supporting-legs, a perforated bottom and top, horizontal partitions, and a perforated conical fitting within said receptacle arranged with its base directed downward and running from

the center of the top of the receptacle approximately to the circumference of the bottom of the receptacle, substantially as described.

In testimony whereof I have affixed my sig- 15 nature in presence of two witnesses.

JOSEPH MARGRETH.

Witnesses:

HEINRICH DANIELSEN, OTTO W. HELLMRICH.