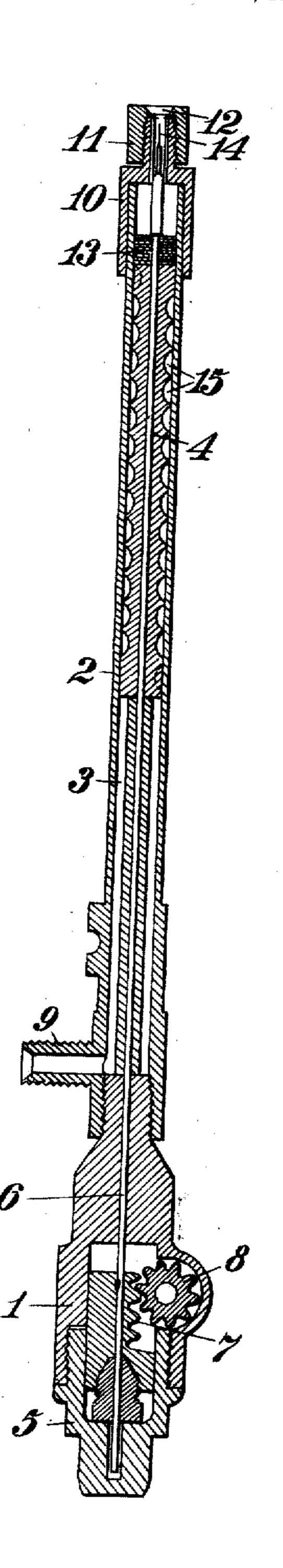
E. HUBERT. VAPORIZER FOR LIQUID COMBUSTIBLES. APPLICATION FILED MAY 1, 1906.

910,685.

Patented Jan. 26, 1909.



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VAPORIZER FOR LIQUID COMBUSTIBLES.

No. 910,685.

Specification of Letters Patent.

Patented Jan. 26, 1909. '

Application filed May 1, 1906. Serial No. 314,730.

To all whom it may concern:

Be it known that I, EMIL HUBERT, a subject of the King of Hungary, residing at 64 Arena-ut, Budapest, Austria-Hungary, have 5 invented new and useful Improvements in Vaporizers for Liquid Combustibles, of which

the following is a specification.

This invention relates to a vaporizer for liquid combustibles which conforms with 10 those hitherto in use in so far as it affords a very long heated passage for the liquid combustible and provides for a very complete vaporization and superheating, in that it ! retains the solid particles, which may be de-15 posited in the vaporizer, by a filter arranged obstruction of the nozzle.

20 construction of such vaporizer. The long and all the particles of carbon deposited, so usual and preferable manner by the interior | through the filter to the outlet aperture, formed by several layers of wire gauze. As | nating power of the gas. 25 compared with the usual construction of the If the opening 12 should become obstructed particularly adapted for the reception of the ple cleaning in the above described manner thin needle as it, like the wire-gauze, is pro- is sufficient for putting the vaporizer in good vided with a fine central aperture through working condition again.

30 which the needle extends.

drawing in longitudinal vertical section con- and in what manner the same is to be persists of a tube 2 screwed on to the casing 1. formed, I declare that what I claim and wish This tube forms the preheating chamber 3 to secure by Letters Patent is: 35 and is adapted to receive the spindle 4. A - A tubular vaporizer for liquid combustiend of the casing 1 and in this cavity is litted | per end, a solid spiral grooved inner part 4 a rack 7 which incloses the needle spindle 6 in the vaporizer. The said rack is operated 40 by a pinion 8 mounted in a bulged part of the

cusmg. The vapor tube proper is provided below I needle in said bore. with a lateral tube fitting 9 for communicat- | In testimony whereof I have signed my ing with the feed pipe and by interposing at name to this specification in the presence of 45 guide sleeve 10, the vapor tube is closed two subscribing witnesses. above with a cap 11 having an outlet aperture 12. A filter 13 comprising a series of gauzes placed over one another is fitted on the upper end of the spindle 4 provided in

the interior of the tube over the preheating 50 chamber 3. The needle 14 is provided on the upper end of a needle spindle 6 extending below in the casing 1 and above in the sleeve 10.

The needle or needle spindle is operated or the cleaning of the outlet aperture is effected 55 in such a manner that the pinion 8 is reciprocated externally, whereupon by the engagement of the rack 7, the spindle 6 connected to the latter is moved up and down. In this vaporizer, the liquid passing out of the fuel 60 receptacle through the tube fitting 9 will rise in the preheating chamber 3 to the spindle 4 and while being vaporized, it will pass around this spindle into the spiral chamber in front of the nozzle and is provided with a | 15. The vapor will pass out of this chamber 65 nozzle cleaning needle in the event of an to the filter 13 and through the latter to the outlet are flure 12. The gas flowing through This invention consists of a special form of this has massage will be excessively heated passage for the combustible is formed in the that the gas completely purified will pass 70 of the tube being of spiral form and the filter | thereby considerably increasing the illumi-

vaporizer, the solid spiral grooved spindle is lafter a very long use of the vaporizer, a sim- 75

Having now particularly described and The vaporizer shown in the accompanying ascertained the nature of my said invention 80

cap 5 is screwed on to the bottom hollowed bles comprising, a casing, a nozzle at its up- 85 in the casing and a filter 13 formed of layers of wire gauze between the end of the part 4 and the nozzle, said inner part and filter having a gui ling axial hore and a nozzle cleaning 90

EMIL HUBERT.

Witnesses:

JOSEPH WILKINSUM, F. E. MALLETT.