• No. 27,293.

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H. JOHNSON.

Vapor Lamp.

Patented Feb. 28, 1860.

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Witnesses

Chas J. Buch Jos Claytons,

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N. PETERS, Photo-Lithographer, Washington, D. C.

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Inventor Henry Johnson

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UNITED STATES PATENT OFFICE.

HENRY JOHNSON, OF WASHINGTON, DISTRICT OF COLUMBIA.

VAPOR-LAMP.

Specification of Letters Patent No. 27,293, dated February 28, 1860.

To all whom it may concern: both generator and burner. I then make a Be it known that I, HENRY JOHNSON, of connection between these holes by drilling the city of Washington, in the District of | a small hole leading from one to the other. Columbia, have invented a new and useful | I do not confine myself to the precise form 60 of the generator herein set forth. Its form Portable or Stationary Self-Generating 5 Fluid-Gas Apparatus; and I do hereby demay be varied according to fancy without clare that the following is a full and exact materially altering the result. My fluid and gas pipes B and C I make description thereof, reference being had to the accompanying drawings and to the charstraight without any curves-the one lead- 65 10 acters of reference marked thereon. ing in a straight line from the generator to the supply pipe and the other also in a Figure 1 is a side elevation. Fig. 2 is a straight line from the generator to the burnplan view. Fig. 3 is a vertical section of the burner. Fig. 4 is a section of the generator er, a result never before accomplished. In my burner it will be seen, that it is first 70 and fluid pipe. 15 I will describe my improvements or incast solid. It is then bored for the reception of the standpost c, and is then slitted. This vention, in order that others may be enabled standpost has a flange *l* which being screwed to make and use it. up tight against the burner forms a ground The nature of my invention consists in joint to prevent gas leakage. This stand- 75 constructing my apparatus with all its pipes post it will also be seen is so constructed as ficulty in cleaning consequent on curved that when screwed in it entirely fills the pipes or passages—a result as yet unaccomcavity of the burner with the exception of a thin space between it and the shell of the plished; also in constructing the generator without any cavity or chamber immediately burner. The advantages of this peculiar 80 construction of my burner are,—in case of overflow the fluid is sooner consumed duct the heat to the pipes; also in placing the screw plugs of the generator immeand less deposit made, the gas or vapor is produced quicker, is kept at a better temperdiately over and in a direct line with the fluid and gas pipes, for the purpose of cleanature, and at a proper pressure. I then drill 85 a hole in my burner at such an angle as that when the burner is in proper position gas ing the burner with a flange on its standpost pipe C will pass into it in a straight line as for making a ground-joint to prevent leakage, and in making said standpost nearly fill above described. the cavity of the burner, for the purposes By constructing my generator, fluid and 90 gas pipes and burner in the manner above In the drawings A is the generator, B the described I am enabled to clean the apparatus with the greatest possible ease and fluid pipe, C the gas pipe, D the burner, E the shade holder, F the key, a screw-plug of efficacy. gas pipe, b the screw-plug of fluid pipe, c The key F for regulating the flow of 95 fluid is the same as is represented in my ⁴⁰ standpost of burner, *l* flange of burner. It will be seen that the general principle former application. The general mode of and design of this invention is similar to operation is also the same. When my apparatus requires cleaning, I the invention patented by me April 12th, take out screw-plugs b and a and standpost 100 1859, but is more simply and effectually at-45 tained. c. I then remove the old packing, clean out the pipes and burner, put in new packing, In the construction of my generator I first cast it in one solid piece, without any and replace the plugs and standpost. cavity. I then drill in its thick rear end Having thus fully described my inventwo holes, one at right angles with the thin tion, what I claim as new and desire to se- 105 50 part of the generator, for the reception of cure by Letters Patent is: fluid pipe B and screw-plug b; the other at 1. The use of straight pipes B, and C, for such an angle (for the reception of the gas conveying the fluid to the heater, or generpipe C and screw-plug a) as that when the ator, A, and for conveying the vapor, or burner is in its proper place under the gengas, from heater A, to burner D, in vapor 110 gas burners, operating as described, and for 55 erator a straight line drawn through the gas pipe, if continued, would pass through purposes set forth.

20 and passages straight, so as to avoid the dif-25 over the flame, so as more speedily to con-30 ing more easily and effectually; also in mak-³⁵ hereinafter set forth.

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2. I claim the heater, or generator A, constructed as described, for conveying the heat to the fluid in rear of the flame, operating as set forth, and described.

3. I claim placing the screw plugs b, and a, above and in right lines, with the pipes B, and C, as described. 5

4. The burner D constructed and operating as set forth, and described, for the use of vapor gas generators. HENRY JOHNSON. In presence of— CHAS. B. BURCH,

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Jos. C. CLAYTON.

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