

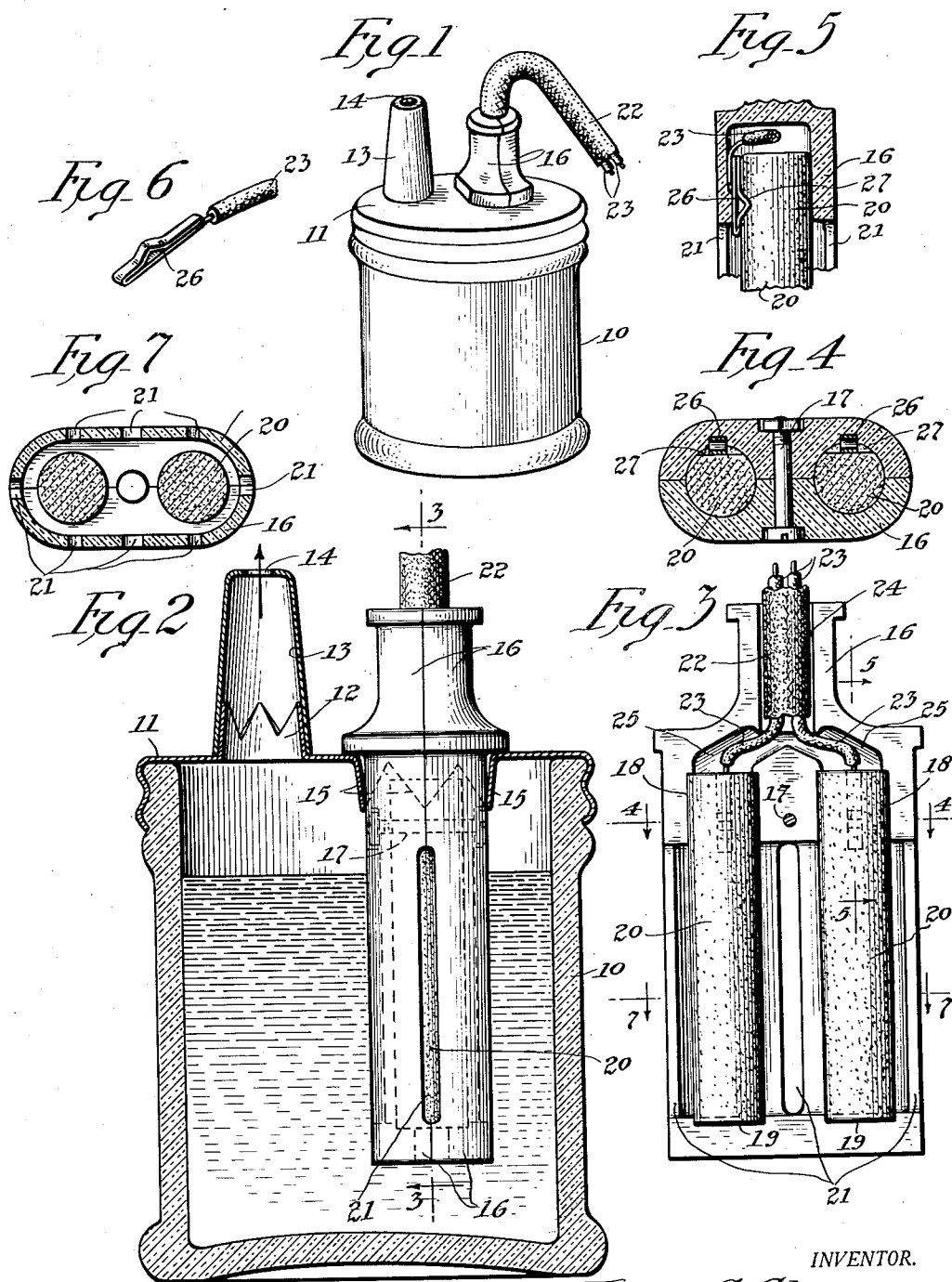
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ELECTRIC VAPORIZER

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INVENTOR.

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ELECTRIC VAPORIZER

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My invention relates to improvements in electric vaporizers adapted for use in producing medicinal vapors, and has for its primary object the provision of an improved construction of this character, capable of economical manufacture and highly efficient in use.

Another object of the invention is the provision of an improved electrolytic element for such vaporizers capable of economical construction and highly efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by referring to the accompanying drawings forming a part of this specification and in which—

Fig. 1 is a perspective view of a vaporizer embodying the invention;

Fig. 2 is an enlarged vertical transverse section of the same;

Fig. 3 is a section of an electrolytic element employed in the construction, said section taken substantially on line 3—3 of Fig. 2;

Fig. 4 is a section taken substantially on line 4—4 of Fig. 3;

Fig. 5 is a section taken substantially on line 5—5 of Fig. 3;

Fig. 6 is a perspective view of one of two electric terminals or contact members employed in the vaporizer; and

Fig. 7 is a section taken substantially on line 7—7 of Fig. 3.

The embodiment of the invention illustrated in the drawings comprises a suitable vessel or container 10, preferably made of glass, porcelain or the like, and provided with a removable metal cover or cap 11 threaded thereon as indicated.

The cover 11 is provided with an upwardly extending thimble 12 struck upwardly from the metal of said cover and frictionally fitting the lower end of a vapor escape nozzle 13 having a central passage opening 14 in its top. The nozzle thus provided furnishes a simple and efficient means of permitting of the escape of vapors generated in the container 10 and directing the direction of such escape.

A downwardly extending nipple 15 is also

provided in the cover 11 and a casing of insulating material is arranged to fit frictionally through said nipple 15. Said casing is preferably formed of two identical separable halves 16 of insulating material adapted and arranged to be held together in proper co-operative relationship by means of a screw bolt 17 as shown. Each of the halves 16 is provided in its upper portion with a semi-cylindrical recess or socket 18, and its lower portion with a registering similar recess 19 adapted and arranged to receive the corresponding ends of carbon electrodes 20 as shown, said electrodes being securely clamped and held in position when the halves 16 are assembled and secured together by means of the screw bolts 17.

Suitable vertical slots or openings 21 are provided in the walls of the members 16 to give access of solution to said electrodes and permit the escape of gases emanating therefrom. Electric current is supplied to the electrodes 20 by means of a cord 22 containing two separate insulated electric wires 23, said cord being adapted and arranged to fit within semi-cylindrical recesses 24 formed in the upper neck portion of the element 16. Diverging or branch recesses 25 are also provided in the element 16 for the accommodation of the wires 23 as shown, and each of the wires 23 is provided at its end with a spring metal terminal or contact piece 26 adapted and arranged to engage a corresponding notch 27 in the corresponding electrode 20 thereof, effecting suitable electrical connection with said electrodes and properly anchoring the terminals in place.

In use, the container is provided with a suitable medicinal solution as indicated in Fig. 2, which is capable of emitting medicinal vapors upon the passage of an electric current. Electric current is then supplied through the wires 23, thus forming one of the electrodes 20 into an anode and the other into a cathode of an electrolytic circuit. The passage of the current through the solution in the container 10 thus emits medicinal vapors which are discharged through the nozzle 13 and may be inhaled by the user with the usual medicinal results.

The construction disclosed constitutes a simple and effective one for the purpose, which is capable of economical manufacture and will be found to be highly efficient in use.

5 While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed but desire to avail myself of such variations and modifications as fall within the scope of the appended claims.

10 Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A vaporizer comprising a container; a removable metallic cover for said container; upwardly and downwardly extending thimbles on said cover; a nozzle on said upwardly extending thimble; a casing of insulating material adapted and arranged to fit through said downwardly extending thimble; an anode and a cathode in said casing; and means for supplying electric current to said anode and said cathode.

2. A vaporizer comprising a container; a removable metallic cover for said container; upwardly and downwardly extending thimbles on said cover; a nozzle on said upwardly extending thimble; a casing of insulating material adapted and arranged to fit through said downwardly extending thimble, said casing being made in two similar separable parts, each of said parts being provided with recesses for the reception of an anode and a cathode and wires leading thereto, there being openings extending through the parts of said casing permitting access of solution to said anode and cathode; an anode and a cathode in said casing; and electric wires leading into said casing and electrically connected with said anode and said cathode.

3. An electrolytic element for vaporizers comprising a casing made in two separable similar halves of insulating material, each half being provided with recesses to receive electrodes and electric wires leading thereto; two electrodes fitting into said recesses and held thereby; and electric wires leading into said casing for supplying current to said electrodes, each of said wires being provided at its end with a spring clip adapted and arranged to make contact with the corresponding electrode and interlock therewith, there being a notch in each electrode to receive the corresponding clip.

4. An electrolytic element comprising a casing made in two separable similar halves of insulating material, each half being provided with a recess to receive an electrode and electric wires leading thereto; an electrode fitting into said recess and held thereby; and an electric wire leading into said casing for supplying current to said electrode, said wire be-

ing provided at its end with a spring clip adapted and arranged to make contact with the electrode, there being a notch to receive the clip and lock it in place in contact with the electrode.

In witness whereof, I have hereunto set my hand this 5th day of March, 1932.

HARRY C. GLESSNER.

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