

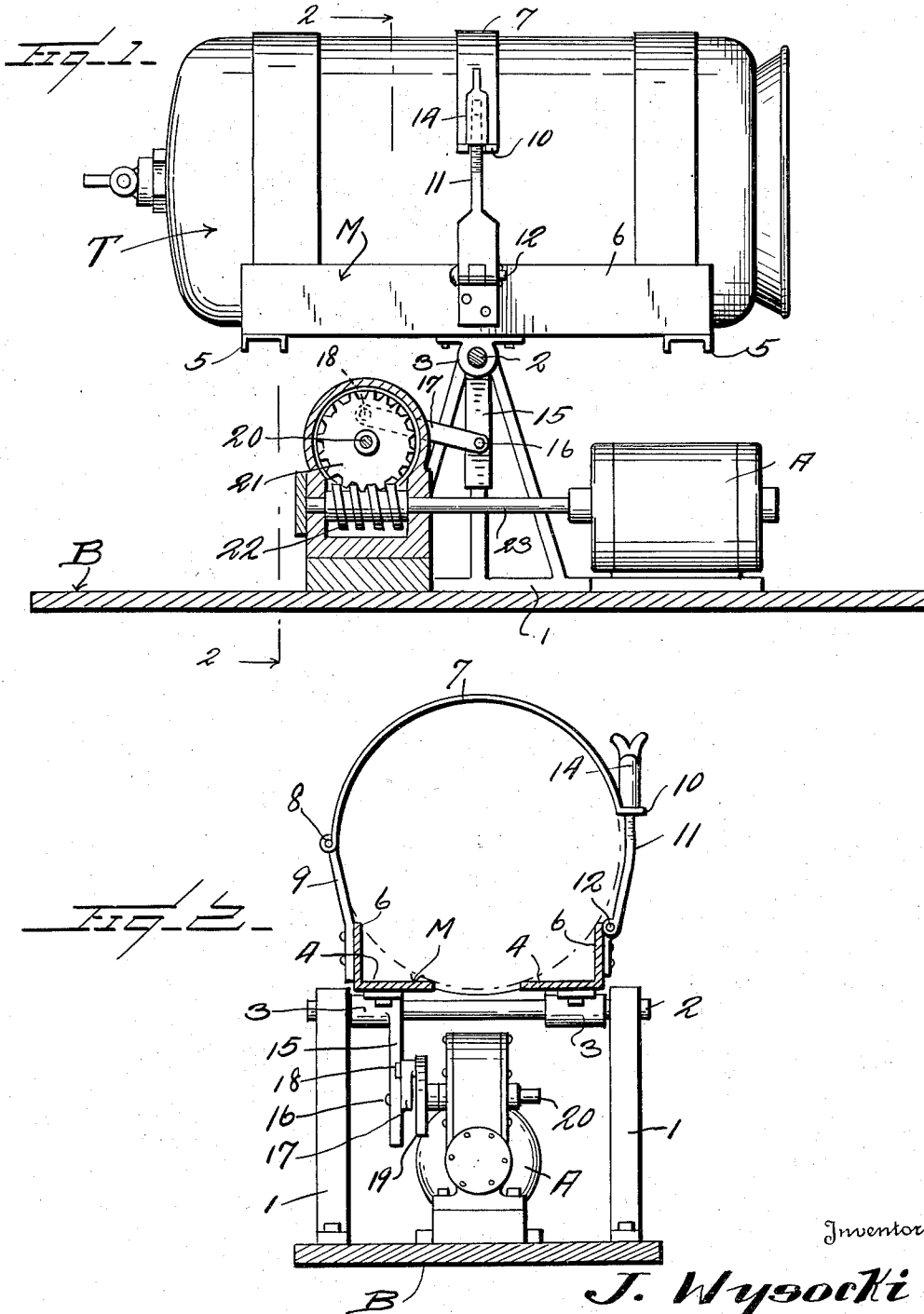
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CARBONATING CHARGER

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CARBONATING CHARGER

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1 Claim. (Cl. 259—75)

This invention relates to a carbonating charger, and it is an object of the invention to provide an apparatus of this kind which is adapted to operate in a manner to assure effective mixing of carbonic gas with water.

At the present time it is the general practice to mix carbonic gas and water in portable tanks by manual operation which for many reasons is unsatisfactory. Another object of the invention is to provide power operated means for this purpose.

A still further object of the invention is to provide an apparatus of this kind including a saddle or body member supported for rocking movement and to which is adapted to be held a tank containing a charge of carbonic gas together with the required amount of water whereby the rocking movement of the saddle or body member with the tank thereon will result in the desired effective mixing of the gas and water.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved carbonating charger whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a view partly in elevation and partly in section illustrating a carbonating charger constructed in accordance with an embodiment of my invention;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1.

As disclosed in the accompanying drawing, B denotes a base of desired dimensions and configuration and which may be of any preferred material. This base is provided with a pair of upstanding and transversely aligned columns or standards 1 providing supports for a stationary shaft 2 bridging the space between said columns or standards. Rotatably mounted upon the shaft 2 are the longitudinally spaced bearings 3 depending from the side members 4 of the saddle or body member M. These side members 4 are of desired length and have their opposite end portions connected by the transversely disposed members 5 secured thereto from below. The members 4 have their outer marginal portions

defined by the upstanding side walls 6 and the inner margins of said members 4 are spaced apart a distance sufficient to assure in connection with the side walls 6 an effective placement upon the saddle or body member M of a tank T of a type generally employed for the storage of carbonated water.

The tank T when placed upon the saddle or body member M is effectively held in such position by the retaining member 7 having one end portion hingedly connected, as at 8, with an upstanding arm 9 arranged substantially central of the side wall 6 of one of the members 4 while the opposite end portion of the member or strap 7 is provided with a bifurcated foot 10 adapted to receive an end portion of a rod 11. One end portion of this rod 11 is hingedly connected, as at 12, to the side wall 6 of the second member 4 of the saddle or body member M and in transverse alignment with the arm 9. The rod 11 has engaged therewith above the foot 10 a nut member 14 which, upon rotation when in contact with the foot 10, serves to provide an effective holding or clamping of the tank T upon the saddle or body member M through the medium of the member or strap 7 and the rod 11.

One of the bearings 3 has depending therefrom a rock arm 15 to which is pivotally connected, as at 16, an end portion of a rigid link or lever 17. The opposite end portion of this link or lever 17 is pivotally connected, as at 18, with a disc 19 carried by a suitably supported shaft 20. This shaft 20 also has fixed thereto a worm wheel 21 meshing with a worm 22 rotating with the shaft 23 driven by the motor A preferably of an electrical type.

After the desired charge has been placed within the tank T and said tank effectively mounted upon the saddle or body member M, the motor A is caused to rotate the worm wheel 21 resulting in such rocking movement of the arm 15 to effect the desired mixing of the gas and water within the tank T.

In connection with the motor A it is found of advantage to employ any conventional type of time switch to be interposed in the operating circuit therefor so that a predetermined period of time for agitating the contents of a tank T is provided.

With a charger or apparatus constructed in accordance with an embodiment of my invention it is possible to mix within a given time a considerable greater number of chargers than is possible under the method now generally employed.

From the foregoing description it is thought

- to be obvious that a carbonating charger constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.
- I claim:—
- 15 A carbonating charger comprising a saddle consisting of two transversely spaced members having upstanding walls along their outer marginal portions, means for supporting the saddle for rocking movement, means for rocking the saddle, an upstanding arm carried substantially central of the side wall of one of the members of the saddle, a retaining member pivotally connected to the upper portion of said arm and adapted to be disposed over a tank positioned upon the saddle, a rod pivotally connected to the central portion of the upstanding wall of the second member of the saddle, and means carried by said rod co-acting with the retaining member for holding said retaining member in effective engagement with a tank upon the saddle.

JOHN WYSOCKI. 15