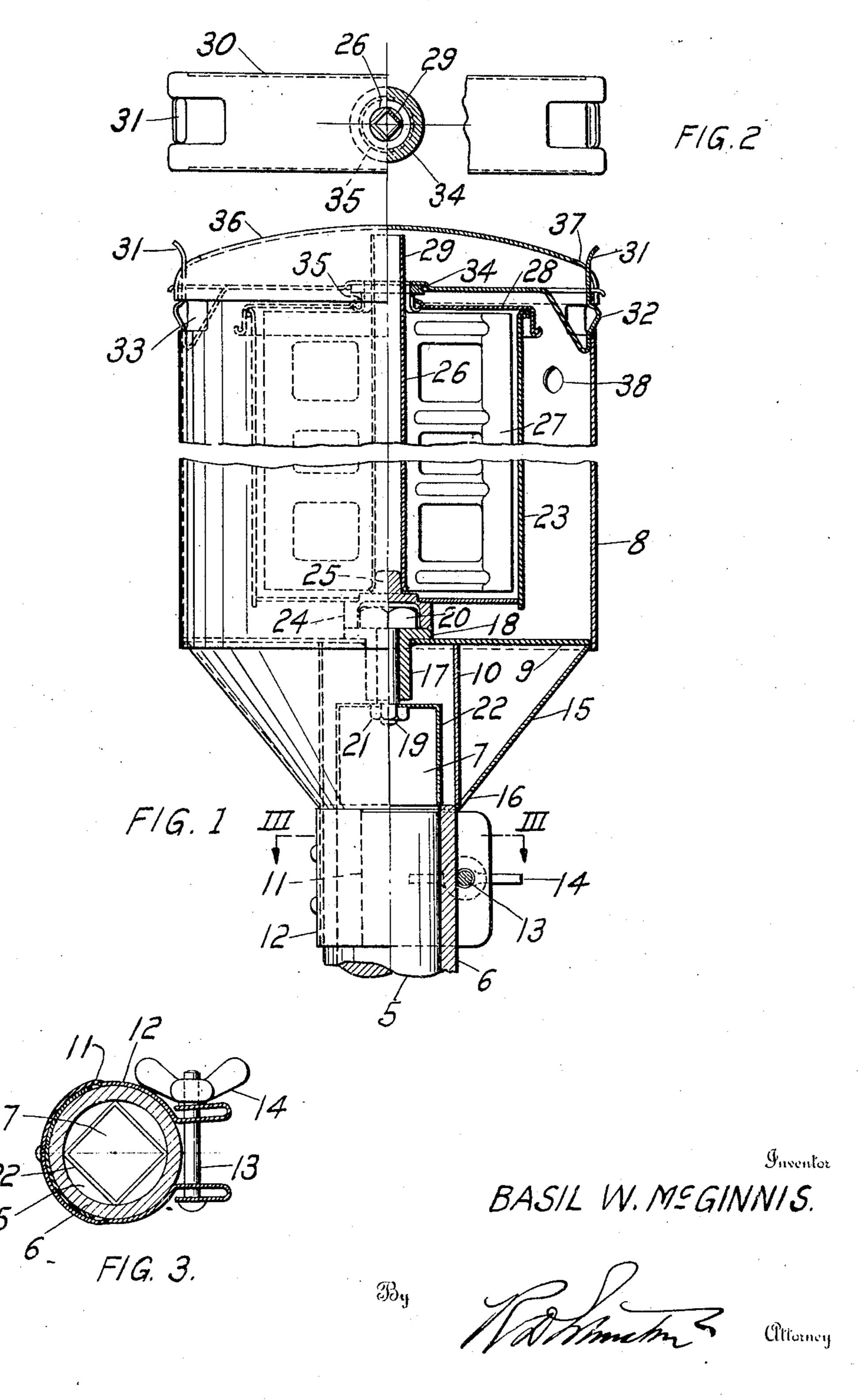
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ICE CREAM FREEZER

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ICE-CREAM FREEZER.

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domestic machines to operate such freezers.

The principal object of the present invention is to adapt other household machinery, such, for instance, as washing machines of the type comprising a vertically-disposed, power-driven shaft, to the operation of an 10 ice cream freezer, so that the usefulness of the existing machinery may thereby be increased without material expense to the user.

My invention contemplates modification of the freezer bucket, or ice-container, so that 15 by means of an opening in the center of its bottom it may be mounted with a water-tight joint on the standard, or sleeve, in which the driving shaft of the washing machine or the like is mounted. Preferably, the freezer 20 bucket will be clamped to this standard to prevent rotation of the bucket.

My invention also contemplates so designing the freezer that its driven shaft will interlock with the power shaft of the washer 25 at the bottom of the freezer bucket, and I provide top means adapted to hold the upper end of the dasher and hence the cream container, in place relative to the ice bucket during the freezing operation.

30 And my invention further contemplates the provision of means to prevent leakage at the bottom of the ice bucket, where the power connection is made between the driving shaft of the washing machine, or the vided at the lower end of the member 15. 35 like, and the ice cream container.

The means by which the foregoing and other objects are accomplished by my invention, and the manner of their accomplishment, readily will be understood from the following description on reference to the accompanying drawings, which depict a preferred embodiment of the invention, and in which:

45 freezer, half in side elevation, and half in against the head 18 of said sleeve, and the 100

Fig. 2 is a fragmentary top plan view, partly in section, of the clamping means for 50 dasher in place during the freezing operation.

tially on line III—III of Fig. 1.

As shown in the drawings, in which corresponding parts are identified by similar

This invention relates to power-driven ice- reference numerals throughout the several cream freezers, and is particularly concerned views, the shaft 5 of the washer, or other with the utilization of existing motor-driven power-driven domestic machine, which shaft commonly has either rotary or radially-oscillatory motion imparted thereto by a motor 60 or other power unit (not shown), is enclosed in a stationary sleeve or standard 6, and said shaft terminates in a squared shoulder portion 7, or other suitable provision is made for connecting the shaft with the member to 65 be driven thereby.

> My ice cream freezer proper comprises an outer ice-container or bucket 8, which may be made of any preferred material, and in conventional shape and standard sizes. To the 70 bottom 9 of the bucket, and placed centrally thereof, a cylindrical sleeve 10, preferably of the same material as the bucket 8, is suitably secured to said bottom, as by soldering, and at its lower end said sleeve is cut away, as 75 indicated at 11, and has riveted or otherwise suitably secured thereto a split clip member 12, adapted to fit snugly over the sleeve or standard 6, and to be clamped tightly thereon by means of a bolt 13 and wing-nut 14. 80 The sleeve 10 is reinforced by a frustro-conical member 15, preferably of the same material as the bucket 8, the upper end of said member being secured in any preferred manner to the bucket at or near the periphery of 85 its bottom, and being likewise secured to the sleeve 10 immediately above the clip member 12, and a suitable drip opening 16 being pro-

The bottom 9 of bucket 8 is centrally aper- 90 tured for the reception of a sleeve 17, preferably of Monel metal or other rust-proof bearing material, said sleeve having an enlarged annular head 18 which is soldered or otherwise secured to the bottom 9 so as to form a 95 water-tight joint therewith. A bolt 19, having a square or other polygonal head 20, is inserted downwardly in the opening in sleeve Fig. 1 is a view of my improved ice cream 17 with the head of said bolt fitting snugly sectional side elevation. lower end of said bolt is screw-threaded for the reception of a nut 21. A socket 22, shaped to conform with and fit snugly over holding the ice cream container and its the head 7 of shaft 5, is secured upon the lower end of bolt 19 by nut 21.

The ice cream container 23 is of a shape Fig. 3 is a sectional plan, taken substan- and dimensions to accord suitably with those of the bucket 8, and the bottom of said container is centrally apertured for the reception of a socket member 24, which is suitably 110

secured to said bottom in such a way as to container 23; the top 28 of said container form a water-tight joint therewith, the is put in place, with the squared upper end socket opening in said member being so 29 of the spindle 26 projecting through the shaped and dimensioned as to fit snugly over opening in said top; and the clamping mem-5 the head 20 of bolt 19, with the lower, plane ber 30 is placed over the container 23, with 70 surface of the socket member bearing upon the humps 32 engaged in the slots 33 in the the head 18 of the sleeve 17. At the upper ice-bucket 8, and the ring or washer 34 in end of the socket member 24, and projecting position for engagement by the sleeve 35 inside the container 23, is a cylindrical bear-secured in the central opening in the top 28 10 ing-stud 25, over which is fitted the spindle of container 23. When the parts are in the 75 26 of the dasher 27, which spindle projects position just described, the container 23 and through a circular opening at the center of its dasher 27 are held by the clamping memthe top 28 of the container 23 and is squared ber 30 against upward displacement, and the at 29 above said top. A clamping member lower surface of the socket member 24 bear-15 30 has a tongue formed at each end, said ing upon the head 18 of sleeve 17, and 80 tongue being cut out from the body portion forming a water-tight joint therewith. of said member and bent angularly down- Thus the only point at which water can ward from the face thereof, and then re- leak out of the ice-bucket 8 is at the overversely bent upward substantially at right flow opening 38. Said bucket may now be ²⁰ angles to the plane of said body portion, the filled with ice and salt, or any other suit- 85 upwardly-bent part 31 of said tongue having able freezing mixture; the cover 36 is put a hump 32 therein of a size and dimensions to in place, and the freezer is ready for use. fit into a slot 33 formed in the side of the It is then only necessary to start the oper-²⁵ 30 has at its middle a squared opening for which rotary or radially-oscillatory motion 90 the reception of the square portion 29 of the is imparted to shaft 5, in order to freeze or spindle 26 of the dasher, and a washer or ice the contents of container 23 quickly and other similar annular bearing member 34 is efficiently without manual labor. While, as 30 concentric with the squared opening there-venting leakage at the bottom of the bucket 95 in, sleeve 35 being secured in the central 8, the vent or drip opening 16 preferably is opening in the top 28 in position to bear provided in the frustro-conical member 15, against the washer 34.

ing provided with suitable slots 37 into rectly thereto. which the upwardly-bent parts 31 of the Various modifications of minor details 105

thereof. or standard 6 by placing the clip member 12 in the claims.

⁵⁰ bucket is secured against rotary or other Letters Patent, is: movement by being suitably attached to 1. A freezer attachment for a machine lower surface of said member bearing upon tending through said supporting means. the head 18 of sleeve 17; the dasher 27 is put 2. A freezer attachment for a machine

bucket 8 near the top thereof. The member ation of the motor or other power unit by secured to the under side of the member 30 has been stated, provision is made for preto guard against possible accumulation of The ice-bucket 8 is provided with a suit- water in said member. It will be noted that, 35 able cover 36, of any desired shape, and pref- if desired, the sleeve 10 may be entirely 100. erably made of the same material as the body omitted, and the frustro-conical member 15 portion of said bucket, said top being adapt- extended at its lower end sufficiently to proed to fit the top of the bucket snugly, and be- vide for attaching the clip member 12 di-

tongues of the clamping member 30 are in- of the improvements disclosed herein doubtserted. An overflow opening 38 is provided less readily will suggest themselves to those in the side of the bucket 8, near the top skilled in this art, but such modifications fall within the scope of my inventive rights, and In the use of my improved ice-cream my invention is not to be construed as being 110 freezer, the bucket 8 is secured to the sleeve limited to any details not specifically set out

thereover and tightening the wing-nut 14; Having thus fully described the invention, or, if no such standard be present, said what I claim as new, and seek to secure by

some other stationary part of the machine having a vertically extending turnable shaft with which the freezer is to be used. When with a surrounding sleeve, said attachment the clip member 12 is thus in place on the comprising a receptacle for a freezing substandard 6, the socket member 22 will be stance, supporting means for securing said 120 fitted over the squared shoulder portion 7 receptacle to the sleeve and against turning of shaft 5, so as to rotate with said shaft. movement, and a container within said re-The ice cream container 23 is then placed ceptacle and rotatable relative thereto, said in the ice-bucket, with the socket member container being connected for power trans-⁶⁰ 24 fitted over the head 20 of bolt 19, and the mission with said shaft by a connection ex- 125

in place, with the lower end of the spindle having a vertically-disposed, turnable shaft or substances to be iced is or are placed in attachment comprising a receptacle for a 130 1,682,976

supported thereby, means for securing said materials having means to mount it fixedly receptacle against turning movement, and a in position concentric with and above the • able relative thereto, the lower end of said said container, a bushing mounted centrally

10 tween said shaft and said container is made, on the coupling element for connection to a said opening having a water-tight closure driving member on the freezer. to prevent leakage from said receptacle, and 6. The combination with a vertically dis-15 age by said shaft.

lower end of said container to said shaft.

power driven appliances comprising a vertically disposed turnable shaft and a fixed In testimony whereof I affix my signature. sleeve bearing therefor, the attachment com-

freezing substance mounted on the sleeve and prising an outer container for the freezing ³⁰ container within said receptacle and rotat-turnable shaft, a turnable freezer within container being connected with said shaft. in the bottom of the receptacle, a coupling 35 3. A freezer attachment conforming to element extending through the bushing, a claim 2, said receptacle having an opening bottom member on the coupling element contherein through which the connection be-necting to the turnable shaft, a top member

means included in the connection between posed power driven shaft of a household apthe container and the shaft to prevent leak-pliance and an ice cream freezer comprising an outer freezing solution receptacle and an 4. A freezer attachment for a machine inner rotary ice cream container, of means 45 having a vertically-disposed, turnable shaft for supporting the receptacle concentric with and a stationary sleeve member surrounding the shaft, a bushing mounted centrally in the shaft comprising a receptacle for a freez- and extending through the bottom of the reing substance, means for detachably sup-ceptacle, a coupling element extending porting said receptacle on said stationary through the bushing, means for detachably 50 member, a container within said receptacle, connecting the power driven shaft and the and means for detachably connecting the ice cream container to the opposed ends of the coupling element, and means associated 5. A freezer attachment for domestic with the coupling means to prevent leakage by the coupling member.

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