R. B. GILCHRIST.

ICE CREAM LADLE.

APPLICATION FILED FEB. 3, 1908.

1,132,657. Patented Mar. 23, 1915.

Fig. 1.

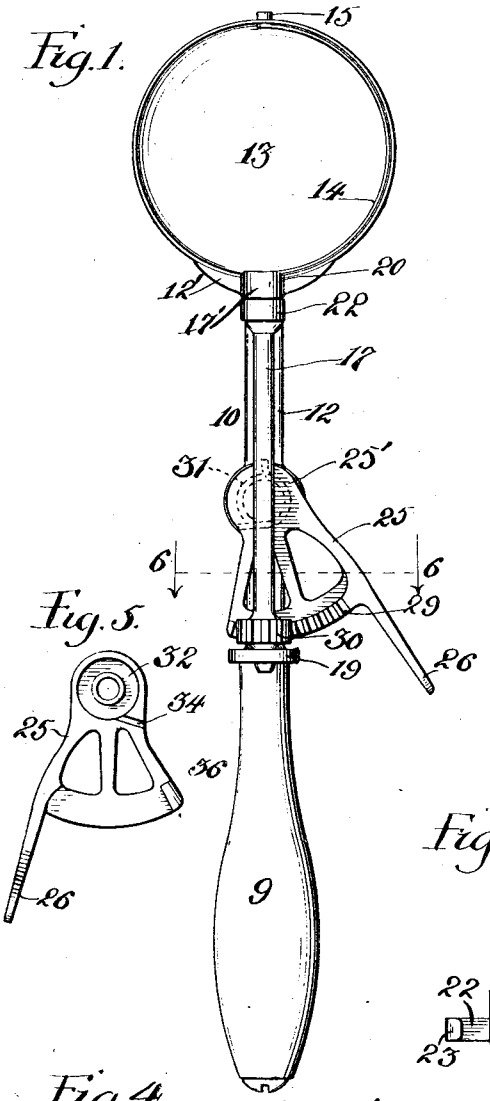


Fig. 2.

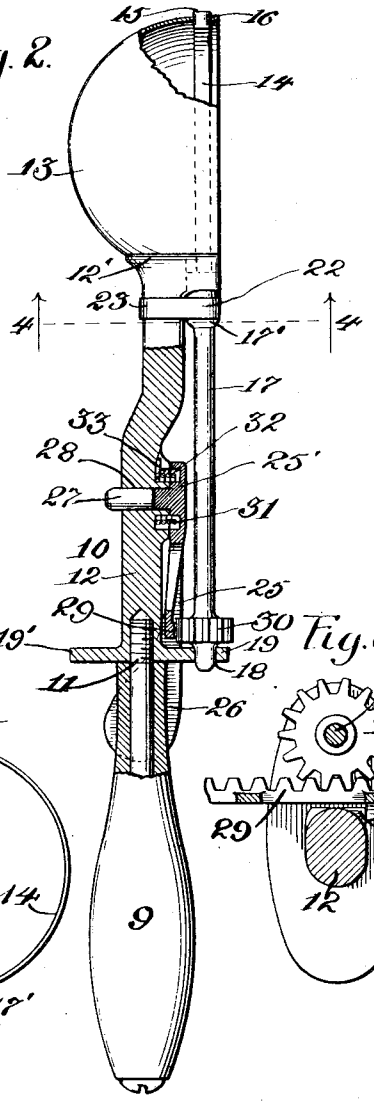


Fig. 5.

Fig. 6.

Fig. 3.

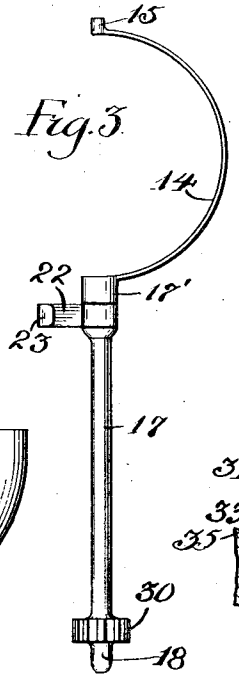


Fig. 4.

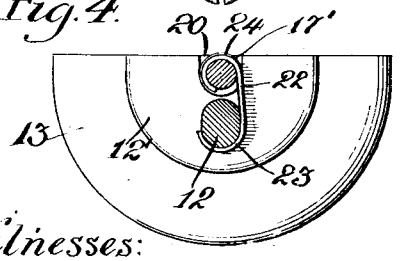
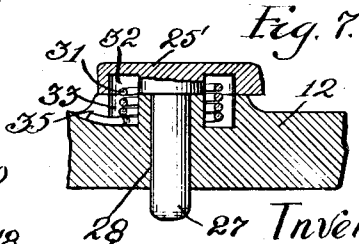


Fig. 7.



Witnesses:
Frank Benum.
Leone L. Russell.

Inventor:
Raymond B. Gilchrist
by Fred Gulach
Atty.

UNITED STATES PATENT OFFICE.

RAYMOND B. GILCHRIST, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE GILCHRIST COMPANY, OF NEWARK, NEW JERSEY, A CORPORATION.

ICE-CREAM LADLE.

1,132,657. Specification of Letters Patent. Patented Mar. 23, 1915.

Application filed February 3, 1908. Serial No. 414,016.

To all whom it may concern:

Be it known that I, RAYMOND B. GILCHRIST, a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Ice-Cream Ladles, of which the following is a full, clear, and exact description.

The invention relates to improvements in ladles or dippers of the type designed more especially for serving ice-cream or like purposes.

In the use of ice-cream ladles it is desirable that the scraper for separating the ice-cream from the bowl, be susceptible of easy and convenient manipulation. It is also desirable that the structure be constituted of readily separable parts, so that those parts, which in use, are brought into contact with ice-cream, may be readily disconnected, so they can be cleaned or washed. In practice it has been found that unless the removable part or parts may be quickly and easily disconnected from one another, the attendant is likely to avoid cleaning them as frequently as necessary to keep them in sanitary condition.

The invention designs to provide a device embodying parts which may be readily disconnected and cleaned so they will be kept in sanitary condition.

A further object of the invention is to provide an improved device in which the scraper actuating mechanism is actuated in one direction by a spring, and in which the spring is concealed or protected from contact with the ice cream, and also to provide a mechanism of this character in which the spring can be easily replaced in event of its becoming broken or inoperative.

The invention further designs to improve the construction and operation of devices of this character.

The invention consists in the several novel features of construction hereinafter set forth and more particularly defined by claim at the conclusion hereof.

In the drawings: Figure 1 is a plan of a device embodying the invention. Fig. 2 is a side elevation, parts being shown in section. Fig. 3 is a detail view of the scraper and its operating-shaft. Fig. 4 is a section on an enlarged scale, taken on line 4—4 of Fig. 2. Fig. 5 is an inverted plan of the finger-lever for operating the scraper. Fig. 6 is a section on an enlarged scale taken on line 6—6 of Fig. 1. Fig. 7 is an enlarged section through the lever-pivot.

Devices of the class to which the present invention relates, usually comprise a handle, a bowl, a scraper for separating the ice-cream from the bowl and mechanism for relatively shifting the cutter and bowl to cause the ice-cream to be removed from the bowl. The device is provided with a handle or frame 10 which comprises a grip 9 and a stem 12 to which the grip is secured in any suitable manner, as by a screw 11. To the enlarged outer end 12′ of the stem, a bowl 13 is rigidly secured. The top of the bowl is open so that the ice-cream may be discharged therefrom and the stem extends transversely from the axis of the bowl for convenience in manipulating the ladle into and out of discharging position. A bowed scraper 14 is mounted so that it will sweep across the inner face of the bowl and substantially from edge to edge thereof to separate or loosen the ice-cream from the bowl. At its outer end, the scraper is provided with a stud or pintle 15 adapted to be held in a bearing 16 formed in and near the edge of the bowl and the other end of the scraper is rigidly secured to a shaft or spindle 17 which is disposed to overlie the stem 12 to provide a compact arrangement of parts. The inner end of the scraper shaft 17 is adapted to be seated and journaled in a closed bearing 18 formed in an upwardly projecting lug 19, formed on the stem 12. The other or outer end of the shaft 17 is slightly enlarged as at 17′ and is adapted to pass into and be held in a open bearing recess 20 formed in the bowl and the enlarged end 12′ of the stem 12. Scraper 14 is resilient to cause it to effectively scrape the bowl and to yieldingly hold shaft 17 against longitudinal movement in bearing 19. As a result of this construction, the scraper and its shaft are yieldingly held in the bearings so that either the pintle 15 or the inner end of shaft 17 may be shifted longitudinally to disconnect them from their respective bearings, thus providing a shaft and scraper which may be readily removed. The pintle 15 is disposed so that it is alined with the axis of the operating-shaft to avoid unnecessary friction on the shaft.

Shaft 17 is preferably extended some distance from the bowl and to a point adjacent the grip 9 so that the operating-mechanism

will not be disposed in close proximity to the bowl where it is likely to come in contact with the ice-cream, or material for which the spoon is used. When this extended shaft is used, it is desirable to provide means adjacent the inner portion of the bowl or that portion to which the stem is secured, for holding the shaft against displacement and which means may be conveniently operated to release the shaft, thus serving as a latch or lock for holding the shaft in operative relation with respect to the handle. For this purpose, a latch or clip 22, formed of a strip of metal, is bent to encircle the shaft 17 and is provided at its lower end with a hook 23 adapted to engage a portion of the stem 12, the hook being sufficiently resilient to permit it to be swung into position illustrated in Fig. 4, or disconnected from the stem when it is desired to remove the shaft. Clip 22 is extended around shaft 17 and in an annular groove 24 formed in the enlarged portion 17′ of the shaft, so that the upper or outer surface of the clip will be substantially flush with the shaft to avoid projections likely to collect ice-cream or which would be otherwise objectionable near the bowl.

From the construction described, it will be obvious that the latch 22 may be readily shifted into and out of position to secure the shaft 17 against withdrawal from the frame or handle and provides locking-means which may be disposed in close proximity to the bowl to hold the shaft in operative position in the open bearing 20. When it is desired to remove the shaft and scraper, it is only necessary to manipulate the clip 22 to disconnect hook 23 from the stem. By then pressing pintle 15 inwardly to disengage it from bearing 16, the shaft will be free to be withdrawn from the bearing 18 at its other end. By reverse operation the shaft and cutter may be replaced or reconnected to the stem and be in operative relation with respect to the bowl.

Mechanism is provided for rotating the shaft 17 to operate the scraper with respect to the bowl, this mechanism comprising a finger-lever 25 provided with a finger-piece 26 at its free end and provided with an integral stud 27 adapted to be held in a bearing 28 extending through stem 12. The lever is provided with a segmental rack or teeth 29 for engaging a pinion 30 secured to shaft 17 so that when the finger-lever is shifted laterally, the scraper will be operated through the necessary arc to effectively separate the ice-cream from the bowl. Preferably the lever is arranged so it may be swung laterally by pressure of the thumb, and toward the handle, the lever-pivot being disposed nearest the bowl so that the co-operating teeth for imparting movement from the lever to shaft 17 will be disposed farthest from the bowl, that being desirable to prevent the coöperating teeth from being dipped into the ice-cream when the ladle is being loaded. Furthermore, the finger-lever is disposed between the cutter-shaft and stem 12 so that it can be conveniently manipulated by the thumb when the bowl is inverted. By employing the coöperating gear-teeth on the lever and shaft as described, the lever is mounted in the stem and the shaft may be disconnected from the stem and operating-lever without disconnecting the latter from the stem, which renders the disconnecting operation simple and convenient.

Shaft 17 is spring-operated in one direction to restore it to and hold it in normal position. A spring 31 for reversely shifting the scraper and operating-parts, is disposed where there is no likelihood of it coming in contact with the ice-cream, being disposed between the enlarged hub 25′ of the finger-lever and the stem 12, each of said parts being provided with an annular recess 32 and 33 respectively in which the spring is inclosed. One end of the coil-spring 31 is held in a notch 34 formed in the finger-lever and the other end is held in a similar notch 35 formed in the stem. This construction provides a simple means for inclosing the spring between the lever and stem and can be conveniently assembled by merely placing the spring in the stem and then turning the lever so as to bring the spring-terminal into the notch 34. A stop-lug 36 is formed on the finger-lever, and adapted to engage a lug 37 on the stem. This lug limits the movement of the operating-mechanism in the spring pressed direction and properly positions the cutter 14 in the bowl. Furthermore, in placing the lever into connected relation with the stem, lug 36 will ride over the stem and when the lever and stem are held together the lug 36 will slip into engagement with lug 37 of the stem and hold the lever and stem in connected relation so that no auxiliary means is necessary for holding them in such relation. Furthermore, when the shaft and scraper are removed to be cleaned, the relation of the lever and frame or stem and handle is not disturbed so that when the shaft is replaced the device will be operative. When the shaft has been connected to the handle it will serve to hold the lever in connected relation to the handle.

The invention posseses several important advantages. It provides a scraper which may be conveniently removed or disconnected from the frame for cleaning. The removable scraper-shaft is held against displacement adjacent the bowl by means which can be easily manipulated, is simple in construction and effectively serves to hold the shaft in operative position at a point ad-

jacent the bowl. The operating-mechanism is of such construction that it can be easily manipulated and is disposed to avoid contact with the ice-cream. The spring is applied to the lever so that it is not necessary to disconnect the spring in order to remove the scraper and shaft, and furthermore, it is effectively covered to avoid contact with the ice-cream. The connection between the spring lever and the frame permits separation of the lever for convenient replacement of the spring when it becomes inoperative or broken, and the stop device for the lever is of such character that it will hold the lever under tension in the normal position of the lever. In the construction set forth, the initial movement of the lever is utilized to wind up the spring so that when the stop device is rendered operable to arrest the lever in the spring pressed direction, the spring will be held under tension. The shaft when in operative position serves to hold the finger-lever against displacement and the spring serves to hold the lever against displacement when the shaft is removed. The construction of the device in its entirety is simple, so that it can be produced at a low cost and the device is efficient in operation.

The invention is not to be understood as restricted to the details set forth since these may be modified within the scope of the appended claims without departing from the spirit and scope of the invention.

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

1. An ice cream spoon comprising a handle and bowl, the latter having a bearing, a scraper having a trunnion, spindle and pinion; the trunnion fitting in the bearing in the bowl, a bearing formed between the handle and the bowl, means coöperating with the bearing to hold the spindle in position in said latter bearing, a finger lever having teeth which engage the pinion, and a spring for operating the scraper in one direction.

2. An ice cream spoon comprising a handle and bowl having two openings in alinement with each other to form bearings, a spindle, a scraper on the spindle, a trunnion on one end of the scraper, a pinion on the opposite end of the spindle, the trunnion and spindle fitting in the bearings, one of said bearings being open at its top and having coöperating retaining means for retaining the spindle in alinement, a finger lever having teeth which engage the pinion, and a spring for operating the scraper in one direction.

3. An ice cream spoon comprising a bowl and handle, the bowl having an opening and in alinement therewith an open bearing, an end bearing on the handle, a scraper having a trunnion which fits in the opening of the bowl, and a spindle which fits in the open bearing and also the end bearing on the handle, means adjacent to and coöperating with the open bearing to retain the spindle in said open bearing, and means for turning the scraper in the bowl.

4. An ice cream spoon comprising a bowl and handle, the bowl having two bearings, one of which is open at the top, an end bearing extending from the handle, a scraper operating in the bowl and having a trunnion and spindle, the trunnion and spindle operating in the bearings, means located to permit movement of the trunnion in direction of the handle to disengage it from its bearings, whereby the scraper may be removed from the bowl, and means for operating the scraper.

5. An ice cream spoon comprising a bowl and handle, the bowl having two bearings, one of which is open at the top, a scraper operating in the bowl and having a trunnion and spindle, a pinion on the spindle, the trunnion fitting in one of the bearings and the spindle fitting in the other, a finger piece having teeth which engage the pinion, a locking connection between the finger piece and the scraper, the open bearing permitting of the withdrawing of the trunnion from its bearing when the locking connection is released.

6. An ice cream spoon comprising a bowl formed with an opening and an elongated open bearing, a scraper operating in the bowl and having a trunnion and spindle, a gear on the spindle, the trunnion operating in the opening and the spindle operating in the bottom of the elongated open bearing, means on the handle adjacent to the elongated open bearing for preventing upward movement of the spindle during operation of the scraper, and a rack engaging the gear to operate the scraper.

7. In an ice cream disher, the combination of a bowl, a frame, a scraper rotatable in the bowl, actuating mechanism for the scraper comprising a lever pivoted to the frame, a spring coiled around the pivotal connection between the lever and the frame, for shifting the actuating mechanism in one direction, a housing inclosing said spring, a connection between the lever and the spring by which the spring may be wound up to put it under tension, and a stop device between the actuating mechanism and the frame for arresting the lever in the spring pressed direction and in its normal position, said stop device being operable to permit the lever to wind up the spring preliminary to its reaching its normal position so that the spring will be under tension when the lever is arrested in its normal position.

8. In an ice-cream dipper, the combination of a frame, a bowl on the frame, a

scraper rotatable in the bowl, a finger-lever pivoted on the frame and operatively connected to rotate said scraper, the abutting faces of the lever and the frame being chambered adjacent the lever-pivot, a coil-spring inclosed by the chambered portions of the lever and the frame and applied to operate the lever and scraper in one direction, and a stop-device for limiting the movement of the lever in the spring-pressed direction, said device being operable to permit the lever to put the spring under tension before the lever reaches the normal position in which it is held by the stop-device.

9. In an ice-cream dipper, the combination of a frame, a bowl on the frame, a scraper rotatable and removably held in the bowl, a pinion for rotating the scraper, a finger-lever pivoted on the frame and operatively connected to rotate the pinion, the abutting faces of said lever and frame being chambered around the lever-pivot, a coil-spring inclosed by the chambered portions of the lever and frame and applied to operate the lever, pinion and scraper in one direction, and a stop-device for limiting the movement of the lever in the spring-pressed direction, said device being operable to permit the lever to be shifted to put the spring under tension before the lever reaches the normal position in which it is held by the stop-device.

10. In an ice cream disher, the combination of a frame, a bowl on the frame, a scraper rotatable in the bowl, actuating mechanism for the scraper comprising a lever pivoted to the frame, a spring coiled around the pivotal connection between the lever and the frame, for shifting the actuating mechanism in one direction, a connection for the spring by which it may be wound up by the lever, and a stop device between the actuating mechanism and the frame for arresting movement of the lever in the spring pressed direction and in its normal position, said device being operable to permit the lever to wind up the spring before the lever reaches the normal position in which it is held by the stop device.

11. In an ice-cream dipper, the combination of a frame, a bowl on the frame, a scraper rotatable and removably held in the bowl, a pinion for rotating the scraper, a finger-lever pivoted on the frame and operatively connected to rotate the pinion, the abutting faces of the lever and frame being chambered around the lever-pivot, a coil-spring inclosed by the chambered portions of the lever and the frame and applied to operate the lever, scraper and pinion in one direction, abutments on the lever and frame, engaged by the terminals of the spring respectively, and a stop for limiting the movement of the lever in the spring-pressed direction.

12. In an ice-cream dipper, the combination of a frame, a bowl on the frame, a scraper rotatable in said bowl, a finger-lever pivoted to the frame, said lever and frame having their abutting faces chambered around the lever-pivot and being capable of being separated by relative movement transverse to the plane of pivotal movement of the lever, a coil-spring inclosed by said chambered parts for operating the lever and scraper in one direction, abutments on the lever and frame engaged by the terminals of the spring respectively, and formed to engage said terminals when the lever and frame are in separated relation so that the spring terminals will engage the abutments before the lever and frame are brought into normal operative relation, and a stop-device for limiting the movement of the lever by the spring.

13. In an ice-cream dipper, the combination of a frame, a bowl on the frame, a scraper rotatable in said bowl, a finger-lever pivoted to the frame, said lever and frame having their abutting faces chambered around the lever-pivot and being capable of being separated by the relative movement transverse to the plane of pivotal movement of the lever, a coil-spring inclosed by said chamber parts, for operating the lever and scraper in one direction, abutments on the lever and frame engaged by the terminals of the spring respectively, and formed to engage said terminals when the lever and frame are in separated relation so that the spring terminals will engage the abutments before the lever and frame are brought into normal operative relation, and a stop-device for limiting the movement of the lever in the spring-pressed direction and operable to permit the lever to put the spring under tension when the lever reaches the normal position in which it is held by the stop-device.

14. In an ice cream disher, the combination of a bowl, a frame on the bowl, a scraper rotatable in and removable from the bowl, a spindle attached to the scraper and removable therewith, actuating mechanism comprising a lever pivoted to the frame and a pinion on and removable with the spindle, a spring for actuating said mechanism in one direction, and means independent of the actuating mechanism for securing the scraper against removal from the bowl.

15. In an ice cream disher, the combination of a bowl, a frame on the bowl, a scraper rotatable in and removable from the bowl, a spindle attached to the scraper and removable therewith, actuating mechanism comprising a lever pivoted to the frame and a pinion on and removable with the spindle, a spring for actuating said mechanism in one direction, and means independent of the

actuating mechanism and of the spring for securing the scraper against removal from the bowl.

16. In an ice cream disher, the combination of a bowl, a frame on the bowl, a scraper rotatable in and removable from the bowl, a spindle attached to the scraper and removable therewith, actuating mechanism comprising a lever pivoted to the frame and a pinion, a spring for actuating said mechanism in one direction, and means independent of the actuating mechanism for securing the scraper against removal from the bowl.

17. In an ice cream disher, the combination of a bowl, a frame on the bowl, a scraper rotatable in and removable from the bowl, a spindle attached to the scraper and removable therewith, actuating mechanism comprising a lever pivoted to the frame and a pinion on and removable with the spindle, a spring for actuating said mechanism in one direction, and a retaining device between the spindle and the frame operable to release the spindle and permit removal of the scraper.

18. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably mounted in the handle, a spring for operating the scraper in one direction, and a latch independent of the spring for holding the shaft in operative relation to the handle and operating-means for the shaft.

19. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably connected to the handle, a spring for operating the scraper in one direction, and a latch for removably holding the shaft in operative relation, said latch being disposed adjacent the bowl.

20. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably connected to the handle, a spring for operating the scraper in one direction, and a latch for removably holding the shaft in operative position, said shaft being provided with a groove for the latch.

21. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably connected to the handle, a spring for operating the cutter in one direction, and a latch for removably holding the shaft in operative relation, said shaft being provided with a groove for the latch, said groove being disposed adjacent the bowl.

22. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably connected to the handle, a lever, a spring for operating the scraper in one direction, and a latch for removably connecting the handle and shaft pivoted to the shaft and having a hook for engaging the handle.

23. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably connected to the handle, a lever, a spring for operating the scraper in one direction, and a latch for removably connecting the shaft and handle pivoted to the shaft and having a hook for engaging the handle, said shaft having a groove adjacent the bowl in which said latch is held.

24. In an ice cream disher, the combination of a handle, a bowl, a scraper, a spindle on the scraper, a pinion on the spindle, said scraper, spindle and pinion being conjointly removable, and a lever pivoted to the handle and operatively connected to the pinion, said scraper, shaft and pinion being removable while the lever is in its normal position.

25. In a device of the character described, the combination of a handle, a bowl, a scraper provided with a pintle at the outer end which is removably held in the bowl, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, and a lever pivotally mounted in the handle eccentrically with respect to said shaft, said shaft being removably held in the handle so it may be removed without removing the lever.

26. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, a lever pivotally mounted in the handle eccentrically with respect to said shaft, said shaft being removably held in the handle so it may be removed without removing the lever, and a latch for holding the shaft in operative relation to the handle.

27. In a device of the character described, the combination of a bowl, a handle on the bowl, a scraper, a spindle on the scraper, a lever pivoted on the handle and operatively connected to the spindle, said spindle and scraper being removable, and a spindle retaining member between the spindle and the handle, operable to release the spindle to permit removal of the spindle and the scraper.

28. In a device of the character described, the combination of a bowl, a handle on the bowl, a scraper, a spindle on the scraper, a lever pivoted on the handle and operatively

connected to the spindle, said spindle and scraper being removable, said spindle being provided with a groove, and a retaining device extending into the groove and held by the handle, for removably holding the spindle.

29. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably held in the handle, a lever pivotally mounted in the handle eccentrically with respect to said shaft, an operating-connection between said shaft and said lever, said lever being disposed between said shaft and the handle, and held against disconnection from the handle by said shaft.

30. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and removably held in the handle, a lever pivotally mounted in the handle eccentrically with respect to said shaft, an operating-connection between said shaft and said lever, said lever being disposed between said shaft and the handle and held against disconnection from the handle by said shaft, and a spring for shifting the scraper in one direction.

31. In a device of the class described, the combination of a handle, a bowl on the handle, a scraper in the bowl and removable therefrom, mechanism for imparting rotative movement to the scraper, and coöperative retaining devices for precluding displacement of the scraper from the bowl, comprising a grooved member rotative with the scraper and a relatively stationary member fitting in the groove of the rotative member.

32. In a device of the class described, the combination of a bowl, a handle on the bowl, a scraper positioned in and removable from the bowl, a spindle on the scraper, actuating mechanism for imparting rotative movement to the spindle, a spring for operating said mechanism in one direction, and a relatively stationary member for removably holding the spindle, said spindle and scraper being removable without relaxing the spring.

33. In an ice cream disher, the combination of a bowl, a handle on the bowl, a scraper rotatable in and removable from the bowl, a spindle attached to the scraper, and a retaining member connected to and removable with the spindle and rotatable to engage a part rigid with the bowl to secure the spindle and scraper against displacement and to permit disengagement from said part to release the spindle and scraper.

34. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, and overlying the handle, and a lever pivotally mounted in the handle and disposed to swing laterally between the shaft and handle.

35. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl and overlying the handle, a lever pivotally mounted in the handle and disposed to swing laterally between the shaft and handle, said shaft being removably held in the handle, and locking-means for holding the shaft in operative relation with respect to the handle.

36. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, a lever pivotally mounted in the handle at its end nearest the bowl, and a gear-connection between said shaft and said lever at that portion of the lever which is farthest from the bowl, said shaft being removably mounted on the handle.

37. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, a lever pivotally mounted in the handle at its end nearest the bowl, a gear-connection between said shaft and said lever at that portion of the lever which is farthest from the bowl, said shaft being removably mounted in the lever, said shaft and said lever being removably connected to the handle, and means for holding the shaft in operative relation with respect to the handle.

38. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, a lever pivotally mounted in the handle, and a spring for operating the lever in one direction, said spring being bent in a recess formed between the lever and the handle so it will be inclosed thereby.

39. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis of the bowl, a lever pivotally mounted in the handle, a pivot connecting said lever and said handle, a coil-spring around said pivot and for shifting the lever in one direction, said lever and handle being formed with grooves in which said spring is held, and a gear-connection between said lever and said shaft.

40. In a device of the character described, the combination of a handle, a bowl, a scraper, a scraper-operating shaft having its axis extending transversely to the axis

of the bowl and removably held in the handle, a spring-pressed lever pivotally connected to the handle, a gear-connection between said shaft and said lever, and a stop on the lever for engaging the stem.

41. An ice-cream disher consisting of a main-bar one end of which is in the form of a handle; a bowl carried by the other end of said main-bar; a scraper shaft one end of which is provided with a scraper pivotally mounted in said bowl and the other end of which is mounted in the handle-end of said main-bar, free to be readily removed therefrom, the free end of said scraper being adapted to be sprung out of its pivotal engagement with said bowl, a strap which detachably connects said main-bar and scraper shaft; a pinion mounted on the latter; and a spring-controlled actuating lever one end of which is mounted on said main bar and the other end of which is formed with a rack which meshes with said pinion.

RAYMOND B. GILCHRIST.

Witnesses:
ROBERT W. HOOK,
MARY OSBORN.