No. 835,131. PATENTED NOV. 6, 1906.

H. S. GEER.

ICE CREAM SCRAPER AND MEANS TO SUPPORT THE SAME.

APPLICATION FILED JAN. 11, 1906.

FIG. 1

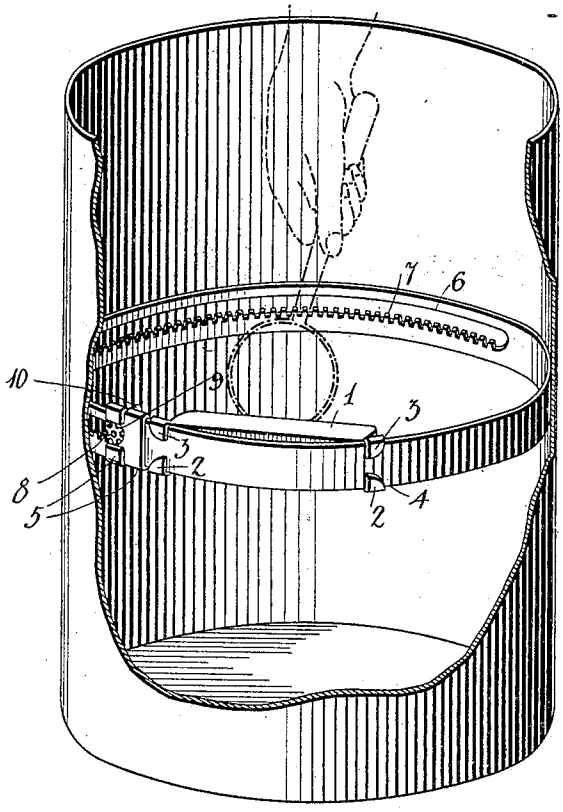



FIG. 3

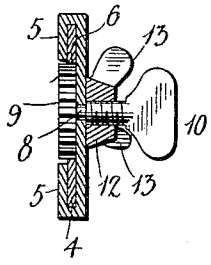
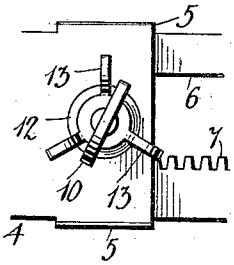



FIG. 4



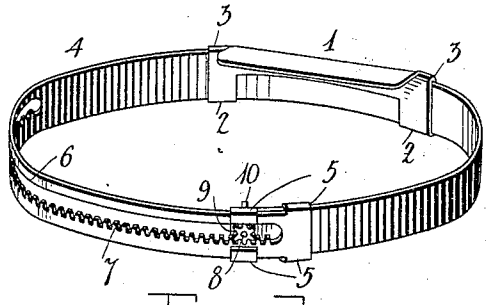




FIG. 2

Witnesses
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THE NORRIS PETERS CO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

HARRIE S. GEER, OF TROY, NEW YORK, ASSIGNOR TO THE H. S. GEER COMPANY, OF TROY, NEW YORK.

## ICE-CREAM SCRAPER AND MEANS TO SUPPORT THE SAME.

No. 835,131. Specification of Letters Patent. Patented Nov. 6, 1906.

Application filed January 11, 1906. Serial No. 295,650.

*To all whom it may concern:*

Be it known that I, HARRIE S. GEER, a citizen of the United States, residing at Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Ice-Cream Scrapers and Means to Support the Same; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in scrapers and means for holding the same in place in a can.

The object of the invention is to provide a scraper of this character and an adjustable support for the same, said support being adapted to be quickly fitted to and secured in any size of can.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the device, showing the same arranged within a can and illustrating the manner in which the scraper is used. Fig. 2 is a similar view of the scraper and its supporting-ring removed from the can. Fig. 3 is a vertical sectional view through the scraper, the supporting ring or band, and the adjusting mechanism; and Fig. 4 is a similar view taken at right angles to Fig. 3.

Referring more particularly to the drawings, 1 denotes the scraper, which is here shown and preferably consists of a blade or plate having on one edge a right-angularly-formed support engaging portion on which is formed lower upwardly-projecting attaching-clips 2 and upper downwardly-projecting attaching-clips 3. The clips 2 and 3 are adapted to be engaged with the upper and lower edges of a support, shown in the present instance as a ring or band 4, thereby slidably connecting said scraper with the ring or band.

The sliding ring or band is provided on its opposite ends with guide-clips 5, the clips of each end being slidably engaged with the opposite ends of the ring, as shown, thereby permitting said ends of the rings to be slipped back and forth upon each other to increase or diminish the size of the ring. In one end of the ring or band is formed a longitudinally-disposed slot 6, in the lower wall of which is formed a series of rack-teeth 7. Journaled in the other end of the ring is a short shaft 8, on the outer end of which is fixedly mounted a spur gear-pinion 9, said pinion being adapted to engage and mesh with the rack-teeth 7 in the slot 6. On the inner end of the shaft 8 is formed a head 10, forming a finger-grip, by means of which the shaft is turned, thereby revolving said pinion on the rack-teeth 7. By turning the pinion 9 in one direction or the other the ends of the ring or band are drawn toward or separated from each other, thereby increasing or diminishing the size of the ring, as will be understood.

In order that the ends of the ring may be held in adjusted position, a suitable locking device is provided, said device consisting of a clamping or jam nut 12, which is arranged on the shaft 8 between the head 10 and the adjacent inner side of the band, said section or portion of the shaft being threaded to engage the threads of the nut 12. The nut 12 is provided with radially-projecting wings 13, which afford means whereby the nut may be readily turned by the fingers and screwed up into tight engagement with the inner side of the band, thereby locking said shaft and pinion against movement, and thus holding the ends of the band in their adjusted positions.

In use the jam-nut 12 is loosened and the shaft 8 and pinion 9 are turned in the proper direction to adjust the size of the ring to permit the same to be placed within a can, after which the shaft and pinion are turned to enlarge said ring and force the same into tight frictional engagement with the inner side of the can. Then the jam-nut is screwed up to lock said parts, thereby holding the ring in its adjusted position, the ring being thus engaged with the side of the can and the scraper arranged in suitable position on said ring, whereby the spoon, mold, or other dipping device may be conveniently scraped off smoothly and evenly as the same is being brought to the top of the can, thus facilitating the removal of the same quantity of cream or other material from the can at each dipping operation.

A scraper having a supporting device arranged as herein shown and described may be instantly adjusted and secured within a can of any size, said scraper and support

being simple, strong, durable, and inexpensive in construction and formed of few parts which may be readily cleaned after being used.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined by the appended claims.

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

1. A scraper of the character described comprising a flexible supporting element to extend around and against the inner side, and having means whereby it may be expanded and adjusted to the size of, a can, to frictionally engage and thereby become secured thereto, and a scraping device carried by said element.

2. A scraper of the character described comprising a ring having means whereby it may be varied in size diametrically to enable it to be fitted in cans of varying sizes, and a scraping device attached to said ring, substantially as described.

3. In a device of the character described, the combination with a scraping-blade, of a supporting-ring therefor, means to slidably connect said blade with the ring, and means whereby said ring may be adjusted to fit various sizes of cans, substantially as described.

4. In a device of the character described, the combination with a scraping-blade, of a supporting-ring therefor, integrally-formed clips arranged on said blade to slidably connect the same with said ring, means to increase and diminish the size of said ring, and means to lock the same in its adjusted positions, substantially as described.

5. In a device of the character described, the combination with a scraping-blade, of a supporting-ring therefor, means to slidably connect said blade with the ring, rack-teeth formed in one end of said ring, a pinion journaled in the opposite end of the same to engage said rack-teeth, means to slidably connect the two ends of the ring, means to operate said pinion and thereby vary the size of said ring, and means to lock said pinion and thus hold said ring in its adjusted position, substantially as described.

6. In a device of the character described, the combination with a scraping-blade, of a supporting ring or band having in one end a longitudinally-disposed slot, a series of rack-teeth formed in one wall of said slot, a shaft journaled in the opposite end of said ring, guide-clips formed on said ends to slidably connect the same, a pinion fixed on one end of said shaft to engage said rack-teeth, a head formed on the opposite end of the shaft, and means to lock said shaft and pinion against movement, substantially as described.

7. In a device of the character described, the combination with a scraping-blade, of a supporting ring or band having in one end a longitudinally-disposed slot, a series of rack-teeth formed in one wall of said slot, a threaded shaft journaled in the opposite end of said ring, guide-clips to slidably connect the ends of said ring, a pinion fixed on the end of said shaft to engage said rack-teeth, a head formed on the opposite end of said shaft, a jam-nut mounted on the threaded portion of the shaft, and means whereby said nut may be turned by the fingers to lock said shaft and pinion against movement, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HARRIE S. GEER.

Witnesses:
JOHN PICKETT,
C. C. CONANT.