

No. 853,493.

PATENTED MAY 14, 1907.

C. H. BRADBURY.
ICE CREAM SCRAPER.
APPLICATION FILED MAY 8, 1906.

Fig. 1.

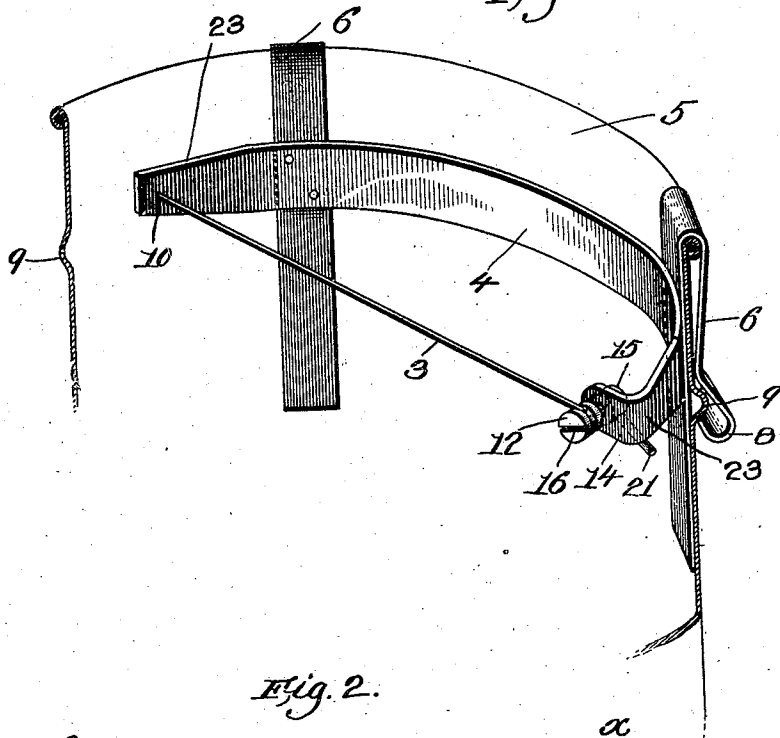


Fig. 2.

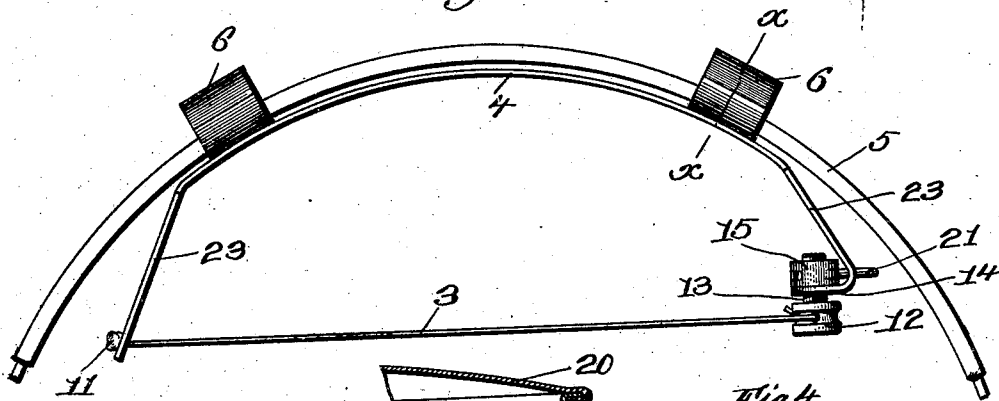


Fig. 3.

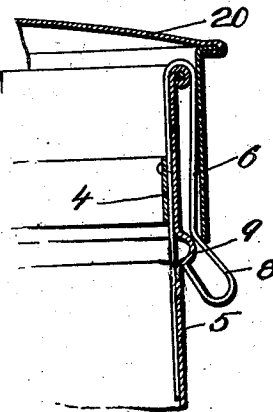
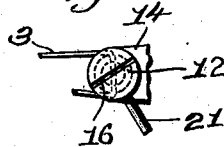


Fig. 4.



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ICE-CREAM SCRAPER.

No. 853,493.

Specification of Letters Patent.

Patented May 14, 1907.

Application filed May 8, 1906. Serial No. 315,790.

To all whom it may concern:

Be it known that I, CHARLES H. BRADBURY, a citizen of the United States, residing at Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Ice-Cream Scrapers, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to provide a novel ice-cream scraper which is designed to be used in connection with ice-cream cans for the purpose of scraping off surplus ice-cream from a dipper or other utensil with which the ice-cream is dipped up.

In ice-cream scrapers, as heretofore made, a scraping bar or blade has been used which has more or less thickness or width. I have found from practice that the ice-cream sticks and adheres to a scraping bar of this character to such an extent as to interfere with the operation of dipping up ice-cream and scraping off the surplus quantity.

In order to avoid this objection I have in the present invention devised a novel form of ice-cream scraper in which the scraping member is in the form of a wire which presents no surface to which the ice-cream can stick or adhere. In using this form of ice-cream scraper therefore the scraping member is always free and clear.

I have also in the present invention devised a novel way of supporting the scraping member by which it is held taut, and a novel means for adjusting the tension thereof as desired.

I have also shown a novel construction whereby the ice-cream scraper may be adjusted to different sizes of cans.

Figure 1 is a perspective view showing my improved ice-cream scraper applied to a can, the can being broken out to better show the construction; Fig. 2 is a top plan view of a portion of the can showing my improved scraper applied thereto; Fig. 3 is a section, through the can and scraper, on the line $x-x$, Fig. 2, showing the cover applied to the can with the scraper therein; Fig. 4 is a detail of the adjustable connection between the wire and the body.

The scraping member is designated by 3 and is shown as a wire. In the present embodiment of my invention it is supported by

a body 4, herein shown as a band of spring or resilient metal which is curved to set inside of the can 5. The scraping member 3 is attached to the body 4 so as to extend from one end to the other thereof. The body 4 is provided with suitable spring clips 6 which embrace the top edge of the can and hold the scraping device in position, and said clips are herein shown as being shaped at their lower ends 8 to fit over and embrace the usual rib 9 which is formed on the can 5. The scraping member 3 is held taut by the resiliency of the body 4.

In the present embodiment of my invention I have provided means for adjusting the tension on the scraping member. One end of the scraping member is shown as being secured to one end of the body 4, and the other end of said scraping member is adjustably secured to the body 4. This result may be secured in a variety of ways. One end of the scraping member passes through a hole 10 in one end of the body 4 and is provided with a head 11 which engages the body. The other end of said scraping member is secured to a drum 12 carried by the body member, so that by turning said drum the wire may be wound thereon or unwound therefrom, and thus its tension may be increased or diminished. The drum herein shown has a hole therethrough through which the wire 3 passes, the free end of the wire being wound about the drum in any suitable way. Said drum has connected therewith a screw-threaded shank 13 which is screw-threaded through an inturned arm 14 projecting from one end of the body 4.

15 designates a lock nut screwed onto the shank 13 for the purpose of holding the drum 12 in any adjusted position. Said nut is herein shown as having a handle 21 extending therefrom by which it may be easily manipulated. When the lock-nut is loosened the drum 12 may be turned to wind the wire thereon more or less, as desired, and when the wire 3 has been drawn sufficiently taut the drum may be locked in its adjusted position by tightening up the lock nut and clamping it against the arm 14.

The body 4 is resilient, as above described, so that it can be bent to different shapes to fit different sized cans. The resiliency of said member 4 tends to straighten it, but this tendency is resisted by the scraping member

or wire 3. The wire 3 therefore performs two functions, first it acts as a scraping member, and second it constitutes a means for holding the body 4 to the desired shape or curvature.

The drum and its shank amount to nothing more practically than an ordinary screw having a special shaped head, the drum constituting the head of the screw. For convenience in turning the screw or drum for regulating the tension of the wire it is provided with an ordinary screw-driver slot 16.

In practice I propose to bend inwardly slightly the ends 23 of the body, as shown in Fig. 2, so that the extremities of the body will be separated slightly from the can. I do this so that the lock nut 15 may stand sufficiently away from the side of the can so that it can be readily operated. The spring clips 6 have been specially designed so that they will not interfere at all with the putting of the cover 20 on the can.

Referring to Fig. 3 it will be seen that the shape of the spring clips 6 is such that the cover 20 may be readily placed over them. This is important because it avoids the necessity of removing the scraper when it is desired to cover the can.

In some places as in drug-stores ice-cream is served from the can only at intervals, and between serving the can is kept covered. With my present form of ice-cream scraper this may be done without removing the scraper from the can.

I believe that I am the first to provide an ice-cream scraper with a scraping member made of wire, and also the first to use the resilient curved body, the free ends of which are connected by the wire, whereby said wire acts both as a scraping member and as a means for holding the body to the right curvature. I also believe that I am the first to provide means for adjustably connecting the wire to one end of the body.

While I have herein shown one embodiment of my invention I do not wish to be limited to the construction shown, as obviously other ways of adjustably connecting the wire to the body and of varying the tension of the latter may be resorted to without departing from the inventive idea expressed in the appended claims.

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

1. In an ice-cream scraper, a scraping member made of wire, and means to hold

said member under tension and to support said member across the open end of a can.

2. In an ice-cream scraper, a curved resilient body, and a wire scraping member supported thereby and held under tension by the resiliency thereof.

3. In an ice-cream scraper, a curved resilient body, and a wire scraping member connecting the ends thereof and held taut by the resiliency of said body.

4. In an ice-cream scraper, a curved resilient body, means to support the same on a can, and a wire scraping member connecting the ends of said body and held taut by the resiliency thereof.

5. In an ice-cream scraper, a curved resilient body, a wire scraping member connecting the ends thereof and held taut by the resiliency of said body, and means to adjust the tension of said scraping member.

6. In an ice-cream scraper, a curved body of resilient material, a wire scraping member secured at one end to one end of the body, and adjustable means to connect said scraping member to the other end of the body.

7. In an ice cream scraper, a scraping member, a body to support said scraping member, and spring clips secured to the body and adapted to embrace the edge of the can, said clips being shaped to fit over the bead or rib formed on the can.

8. In an ice cream scraper, a scraping member, a body to support said member, and spring clips secured to the body and adapted to embrace the edge of the can; said clips having a construction to permit the cover to be placed on the can without removing the ice cream scraper.

9. In an ice cream scraper, a curved body of resilient material, a wire scraping member secured at one end to one end of the body, and a drum at the other end of said body to which the other end of the wire is secured.

10. In an ice cream scraper, a body of resilient material curved centrally to fit the shape of a can and having its ends bent inwardly, and a wire scraping member connecting the ends of the body and held taut by the resiliency thereof.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

CHARLES H. BRADBURY.

Witnesses:

LOUIS C. SMITH,
BERTHA F. HEUSER.