

No. 609,322.

Patented Aug. 16, 1898.

C. AICHELE.  
DASHER FOR ICE CREAM FREEZERS.

(Application filed Oct. 1, 1897.)

(No Model.)

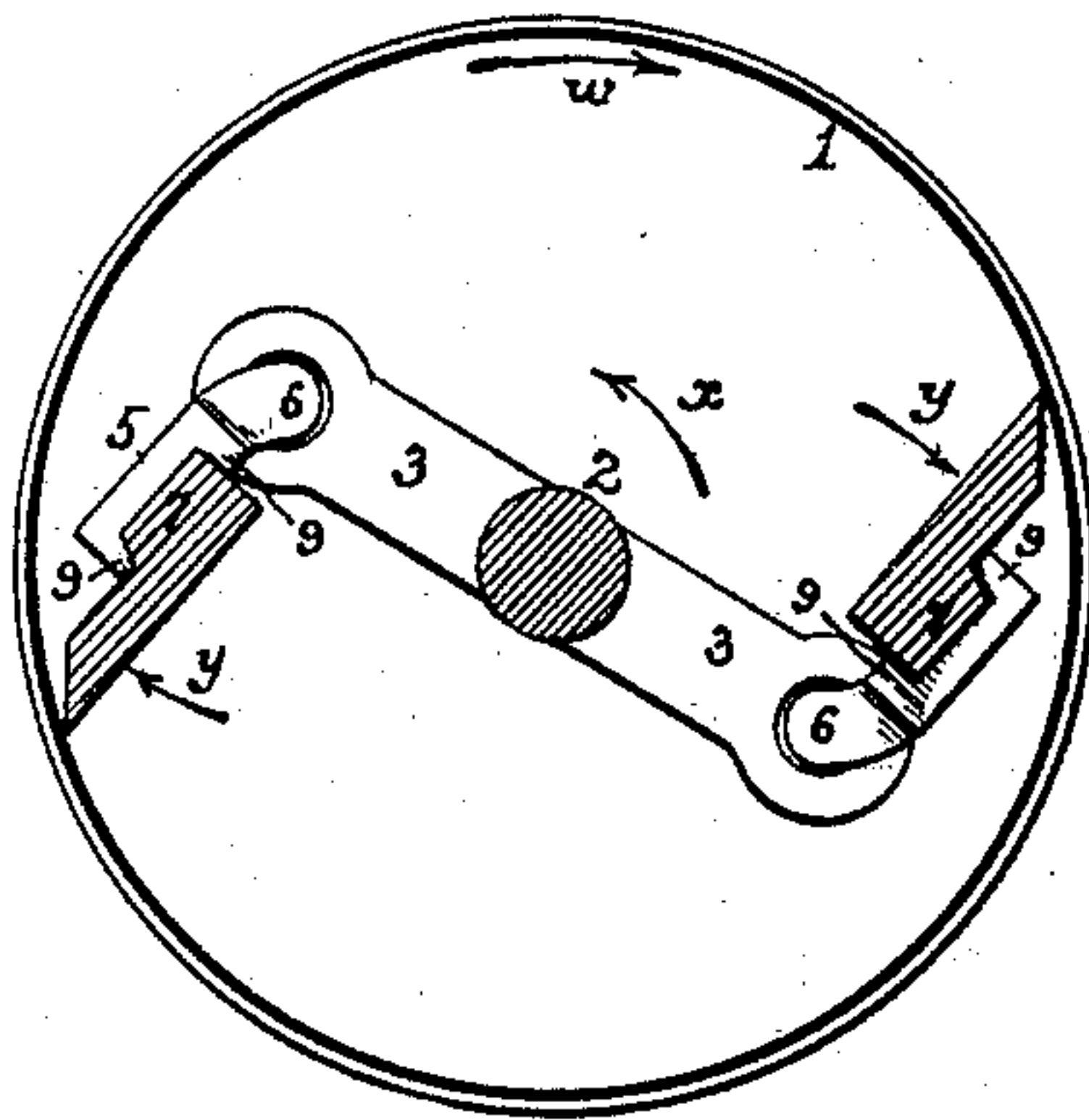


FIG. 2.

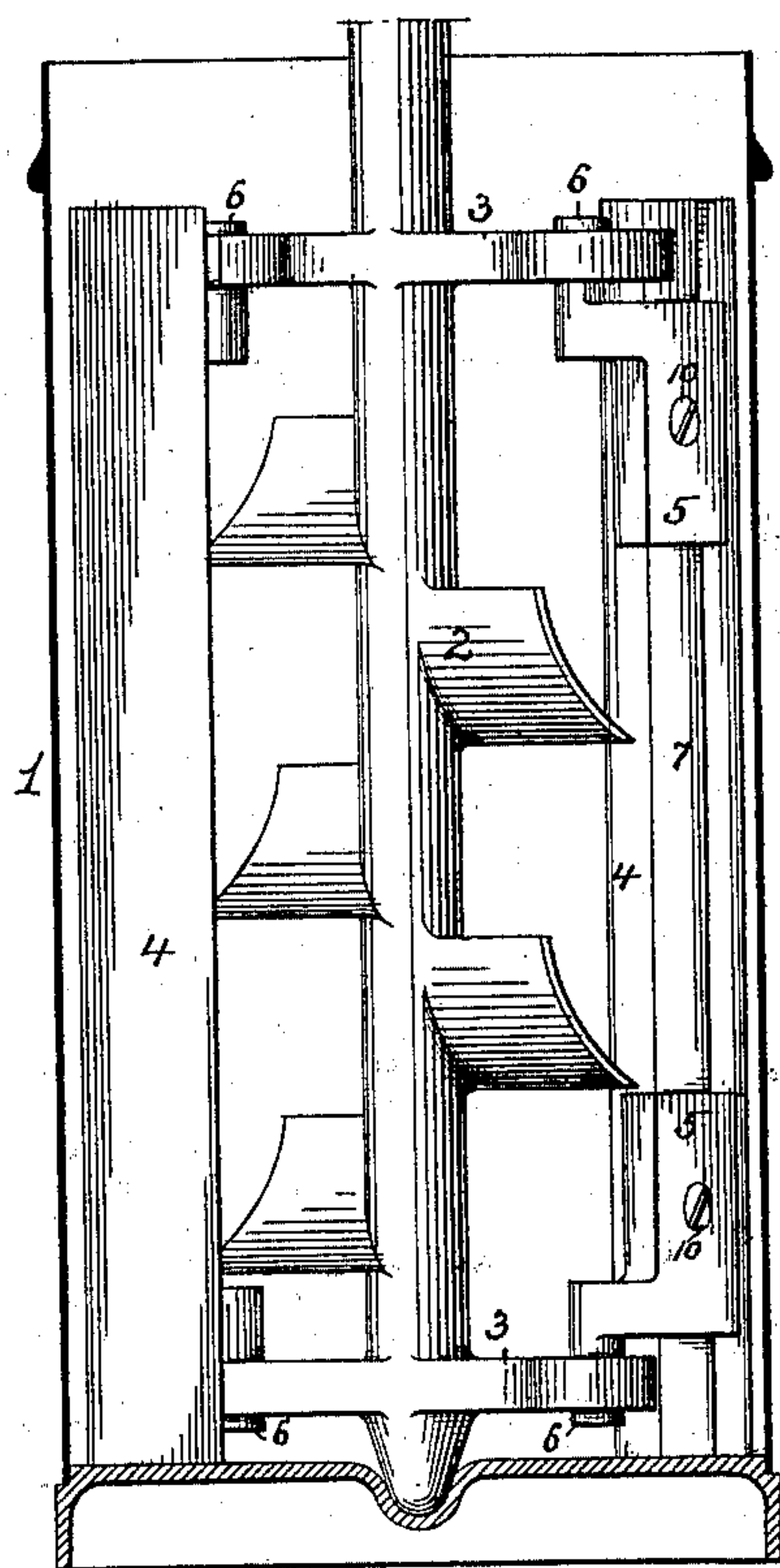


FIG. 1.

Witnesses:  
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# UNITED STATES PATENT OFFICE.

CHRISTIAN AICHELE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE  
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## DASHER FOR ICE-CREAM FREEZERS.

SPECIFICATION forming part of Letters Patent No. 609,322, dated August 16, 1898.

Application filed October 1, 1897. Serial No. 653,713. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTIAN AICHELE, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain  
5 Improvements in Dashers for Ice-Cream Freezers, of which the following is a specification.

One object of my invention is to provide the dasher of an ice-cream freezer with scrapers  
10 so arranged that they will, so long as the can or dasher is rotated, be caused to constantly bear against the inner surface of the can, and thus remove the frozen cream therefrom as fast as it is formed, a further object  
15 being to so construct the scrapers and the pintle-plates whereby they are hung to the dasher-arms that each of said plates may be secured to the scraper by means of a single screw or bolt. These objects I attain in the  
20 manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical sectional view of an ice-cream can having a dasher with scrapers constructed and mounted in accordance with  
25 my invention, and Fig. 2 is a sectional plan view of the same.

The can 1 may be of any suitable character, and the dasher 2 may also be constructed in any desired way so long as it is provided  
30 with projecting arms 3, to which the scrapers are hung. Each scraper 4 consists, as usual, of an upright blade or strip, preferably of wood and having a beveled or sharpened  
35 outer edge for bearing against the inner surface of the can, each scraper having a pair of pintle-plates 5, each with projecting pintle 6, that of the upper plate extending upwardly into an opening in one of the upper arms 3  
40 of the dasher and the pintle of the lower plate extending downwardly into an opening in one of the lower arms 3 of said dasher. The pintle-plates 5 are, however, so located upon the scraper that vertical play of the  
45 pintles in the arms of the dasher is permitted, and the scraper normally projects so far below the lower arm of the dasher that when said dasher is introduced into the can the lower end of the scraper will strike the bottom of the can before the pivot pin or step at  
50 the lower end of the dasher finds its bearing

in the recess in the can-bottom. Hence the scraper will be slightly lifted and free to swing, as shown in Fig. 1, as its weight will be borne by the bottom of the can. When, therefore, the dasher is rotated in the direction of the arrow *x*, Fig. 2, or the can is rotated in the direction of the arrow *w* in said figure, or both of these movements are resorted to, the friction upon the bottom of the scraper will cause the same to swing outwardly, as represented by the arrow *y* in Fig. 2, so as to press its beveled or sharpened outer edge constantly against the inner face of the can, and thus remove the frozen cream therefrom as soon as it is formed. By this means I am enabled to effect the outward swinging movement of the scrapers by means at once simple, cheap, and effective, as no more parts are required than are necessary in hanging any ordinary scraper to the dasher.  
55 60 65 70

Each scraper has on the back a projecting rib 7, as shown in Fig. 2, and each of the pintle-plates 5 has opposite edge flanges 9, so that said rib 7 on the back of the scraper is embraced by the pintle-plate, and the latter thus has so firm a hold upon the scraper that it may in the smaller sizes of freezers be secured to the scraper by a single screw or bolt 10, as shown in Fig. 1, instead of by a pair of screws, such as are usually required.  
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The outer shoulder of the rib 7 and the outer flange 9 of the pintle-plate are beveled on their meeting faces, as shown in Fig. 2, so that when the screws 10 are tightened there will be a snug fit of the flanges 9 to the inner and outer faces of the rib 7 and a firm fastening of the scraper to the pintle-plates.  
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Having thus described my invention, I claim and desire to secure by Letters Patent—  
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1. The combination of the dasher of an ice-cream freezer with a freely-swinging scraper mounted so as to have vertical play on said dasher, the bottom of the scraper, when the dasher is inserted in the can, resting upon the bottom of said can, whereby the rotation of the can or dasher will tend to swing the scraper outwardly.  
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2. The combination of a dasher having upper and lower projecting arms, with a freely-  
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swinging scraper having pintle-plates projecting between said arms and provided with projecting pintles adapted to openings in the dasher - arms, said pintle - plates being so  
5 mounted on the dasher that, when the scraper rests on the bottom of the can, neither plate will be in contact with its arm.

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

CHRISTIAN AICHELE.

Witnesses:

WILL. A. BARR,  
JOS. H. KLEIN.