Dec. 30, 1930. A. S. DAWSON 1,786,603

WHISK WHIP

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Fig. 1.

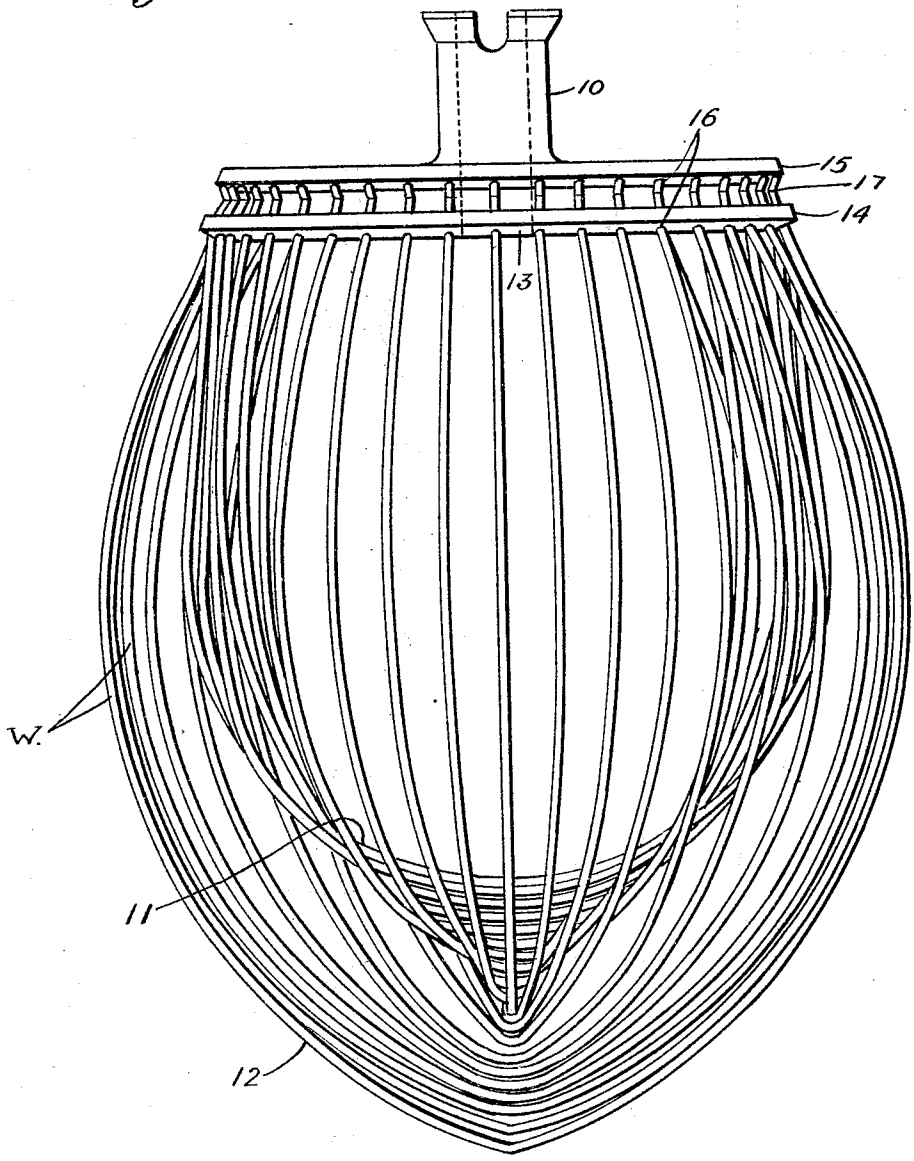

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Fig. 2.

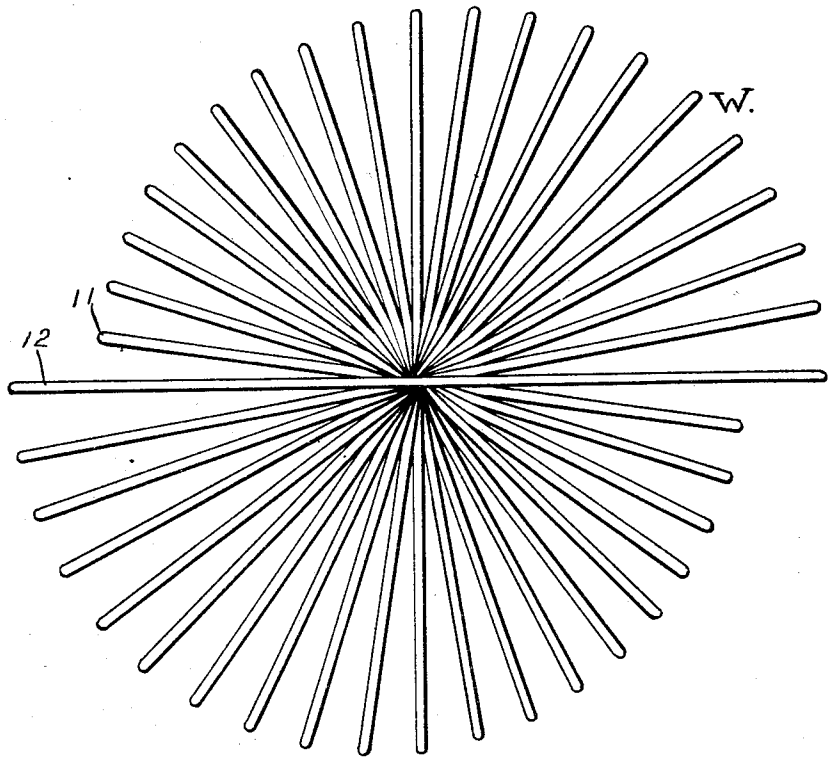
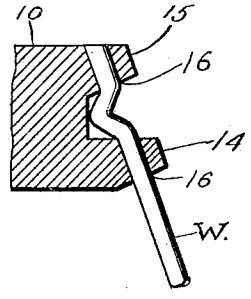


Fig. 3.



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Patented Dec. 30, 1930 1,786,603

UNITED STATES PATENT OFFICE

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WHISK WHIP

Application filed April 15, 1930. Serial No. 444,516.

This invention relates to whisk whips, and more particularly to a structure especially adapted for use in the large mixers employed in hotels and the like, although not necessarily limited to such use.

An important object of the invention is to produce a whip of the type employing a plurality of short wires bent in loops in such manner that the whip will tend to cause centrifugal or centripetal action of the contents of the bowl in which it is rotated and will, at the same time, cause a movement thereof in the general direction of the axis of the bowl.

A still further object of the invention is the production of a device which may be readily and cheaply manufactured, which will be durable and efficient in service and a general improvement in the art.

These and other objects I attain by the construction shown in the accompanying drawings wherein, for the purpose of illustration, I have shown a preferred embodiment of my invention and wherein:

Fig. 1 is a side elevation of a whisk whip constructed in accordance with my invention;

Fig. 2 is a bottom plan view thereof; and

Fig. 3 is a fragmentary sectional view illustrating the manner of securing the wires in the whip head.

Referring now more particularly to the drawings, the whisk comprises generally a head 10 and a series of wires W extending diametrically of the head and secured at their ends thereto, the wires W being graduated in length from a short wire 11 to a long wire 12. The head 10 includes a main body portion 13 embodying longitudinally-spaced flanges 14 and 15 which are provided with diametrically-opposed pairs of aligned openings 16 for the reception of the ends of the whisk wires W. In the construction of the whisk, beginning with the shortest wire 11, the wires are placed in position consecutively as to length, the ends of each wire being placed in the aligned openings 16 of flanges 14 and 15 at diametrically-opposed points and the ends of each succeeding wire being placed in openings adjacent to the openings receiving the previously installed wire, and at opposite sides of such openings so that each wire when installed crosses the previously inserted wire at an extremely acute angle thereto.

This produces a wire construction, with the completion of the installation, which is substantially auger-shaped, when the general contour of the surface produced by the completed installation is considered, resulting when the whip is rotated, in combined axial and radial movements of the material acted upon. The wires between adjacent faces of the flanges 14 and 15 are crimped as indicated at 17, the crimps providing portions engaging both flanges so that longitudinal displacement of the wire ends is effectually prevented, as illustrated in Patent No. 1,007-891, granted November 7, 1911 to Harry Read for Beater for mixing machines.

Since the construction illustrated is capable of a certain range of change and modification, I do not wish to be understood as limiting myself thereto, except as hereinafter claimed.

I claim:

1. A whisk whip comprising a head and a series of bowed wires graduated as to length, each extending diametrically of the head and having its ends secured thereto, the ends of each wire when secured being adjacent to but circumferentially displaced from the ends of the next shorter wire of the series and having the central portion of the bow thereof extending over the corresponding portion of the preceding wire, the side portions of each of the bows being radially spaced from the side portions of adjacent bows.

2. A whisk whip comprising a head and a series of bows having the ends of the arms thereof secured to said head in circumferentially-spaced relation to one another and each extending diametrically of the head, the side portions of said bows in a plane spaced from the head and perpendicular to the axis thereof being spaced from the axis of the head through different distances and combining to produce an auger-like contour in said plane.

ALBERT S. DAWSON.