

H. R. GOTTHARDT.
CUP FOR CONVEYERS.

APPLICATION FILED JULY 15, 1914.

Patented Feb. 22, 1916.

3 SHEETS—SHEET 1.

1,172,702.

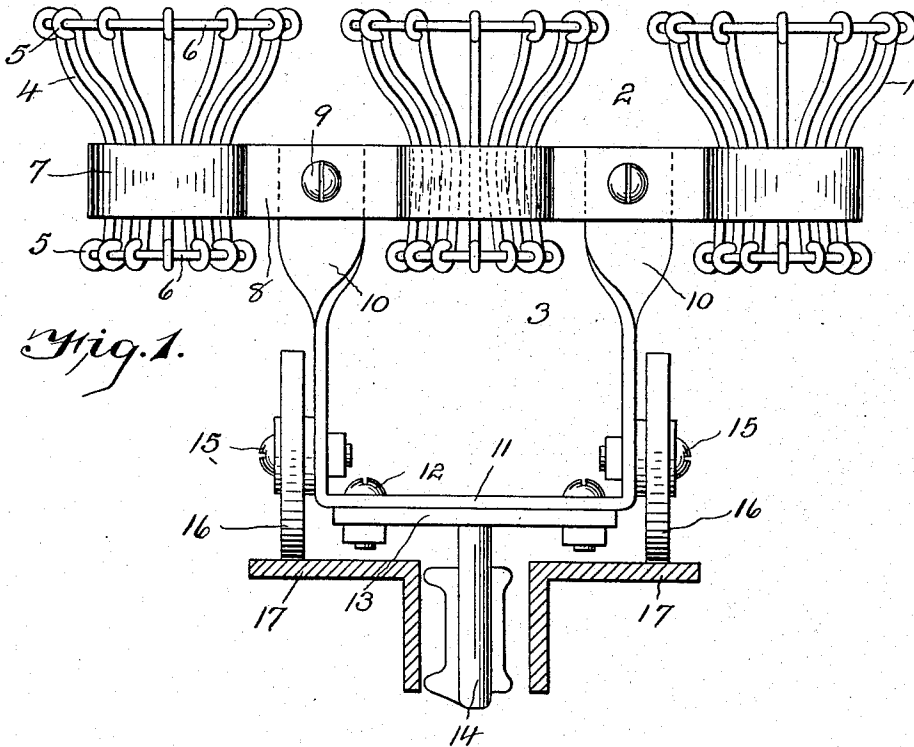


Fig. 1.

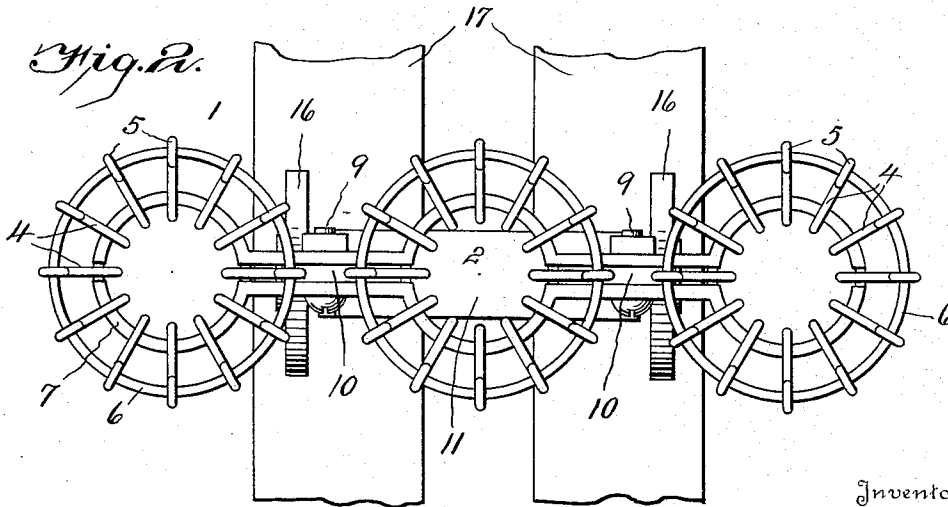


Fig. 2.

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Fig. 3.

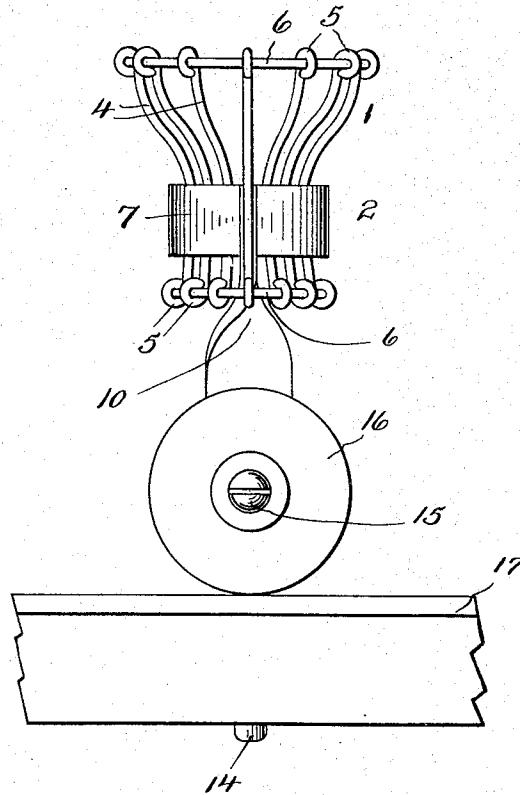
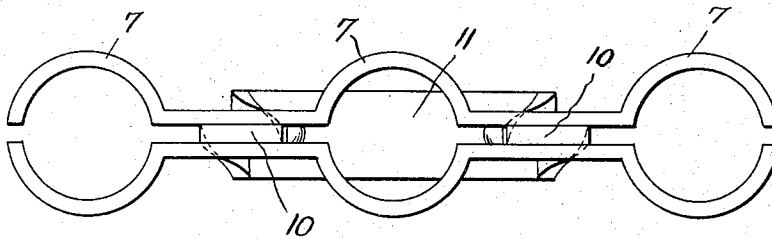


Fig. 4.



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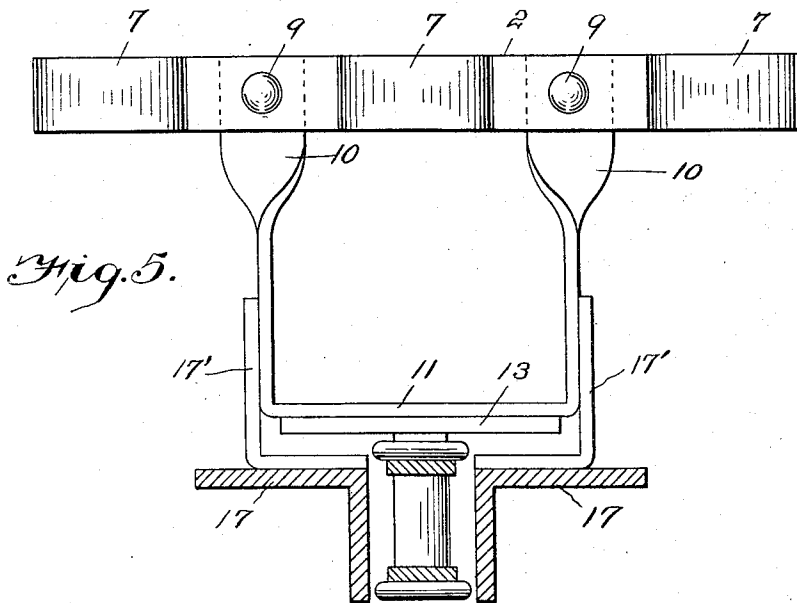
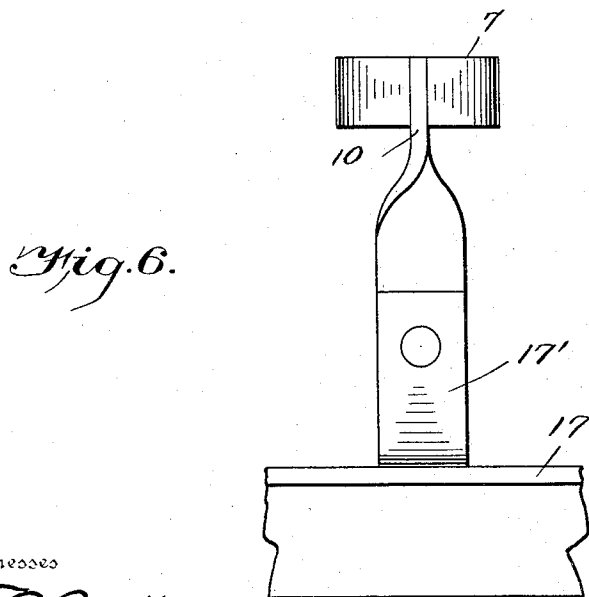
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UNITED STATES PATENT OFFICE.

HENRY R. GOTTHARDT, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO DOW WIRE & IRON WORKS, OF LOUISVILLE, KENTUCKY, A CORPORATION.

CUP FOR CONVEYERS.

1,172,702.

Specification of Letters Patent.

Patented Feb. 22, 1916.

Application filed July 15, 1914. Serial No. 851,112.

To all whom it may concern:

Be it known that I, HENRY R. GOTTHARDT, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Cups for Conveyers; 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in conveyers generally, more particularly cups or baskets therefor of that type for conveying bottles either empty or filled, inverted or otherwise.

The invention has for its object primarily, to guard against the casual chipping or breaking of the bottles in the usual contact with the cups or baskets of the conveyers or carriers as heretofore experienced.

A further object of the invention is to promote cleanly or sanitary conditions and to provide for the ready and effective cleansing of the bottle carrying cups or baskets.

A still further object is to render the cups or baskets light and flexible and yet enable them to possess the requisite wearing or lasting qualities of the present type of metal cups or baskets.

A still further object is to provide for carrying out the aforesaid ends in a simple, expeditious and effective manner and with facility.

The invention therefore consists of certain instrumentalities and features of construction substantially as hereinafter fully disclosed and defined by the appended claims.

In the accompanying drawings is illustrated the preferred embodiment of my invention wherein it will be understood that various changes and modifications may be made as to the detailed construction and arrangement of parts without departing from the scope of the claims, and in which drawings—

Figure 1 is an elevational view of a plurality or series of cups or baskets and a carrier therefor, illustrating the character-

istic features of my invention. Fig. 2 is a plan view thereof. Fig. 3 is an end elevation of the same. Fig. 4 is a detailed plan view of the frame-member yoking together the cups or baskets in pluralities or series of preferably twos or threes. Figs. 5 and 6 represent a side elevation, partly in section, and an end elevation of the conveyer or carrying frame or bracket, with the cups or baskets removed, the same being a modification as presently explained.

In carrying my invention into practice, I provide a basket or cup 1, which I preferably assemble in a series or group of three, 2, for transit upon a common carriage 3, itself in practice positioned upon and carried by an endless belt or chain. The cup or basket 1 is formed of a plurality or numerous vertical wires 4 arranged in a general circular outline and of requisite length to impart to the cup or basket a suitable capacity to receive a bottle, preferably inverted or neck downwardly, to a practical extent for its suitable retention in position therein, said wires being constricted in their arrangement near their lower ends downwardly to conform to the contour of the bottle-neck.

The constricting of the arrangement of the wires of the basket or cup as stated will, of course, impart thereto an upwardly flared outline at their upper ends in further conformity to the bottle-contour. These vertical wires have threaded through eyes or loops 5 at their upper and lower ends circular or ring-forming wires 6, of course, of different diametric outlines. As conducive and conforming to the constrictedly arranged portions of the vertical wires 4 of the basket or cup 1, these wires are received within, and passed through annular formations, the resultant of semi-circular shaped portions 7 of complemental otherwise parallel members or plates 8 suitably held together by nut-equipped bolts or rivets 9. Having flatwise disposed upper ends, received between the complemental plate-members 8 and secured thereto by the same screw-bolts 9, at said ends, are the upright parallel suitably spaced-apart arms 10 of a U-shaped bracket or frame 11. To this bracket or frame, at its bottom, is suitably bolted as at 12 a bar 13 having centrally depending therefrom as at 14 means for the attachment thereto of a driving

chain (not shown) such forming no part of my present invention.

Suitably journaled, laterally of the U-form of bracket or frame 11 upon preferably stub-axle forming screw bolts 15, are wheels or rolls 16 traveling upon a tramway or track 17 suitably erected therefor, said stub-axle forming screw bolts being applied to said brackets or frames as shown. This arrangement, as thought self-explanatory, provides for the retention of the resultant trucks against casual tilting or careening.

It is further observed, with respect to the basket or cup, that, by reason of its skeleton-like structure and the malleability of the metal of which its constituent parts are formed, is light and yet durable and resilient or flexible to such a degree that it will so cushion the contact which takes place therebetween and the bottles forcibly or otherwise in inserting or removing the latter, that any chipping or liability of the breaking of the bottles is obviated, as is believed clearly apparent. Also, as previously stated, the basket or cup may be readily cleansed by simply directing a stream of water thereon from a hose and be thus retained in a highly sanitary or cleanly condition as also thought apparent, and the use of rubber or other elastic lining for the cup or basket is not required.

As suggested by Figs. 5 and 6, I may substitute for the wheels or rolls 16, as in the above described form of my invention, angled guide-plates 17' suitably secured and positioned with respect to the U-shaped bracket or frame 11 for the guidance of the cup or basket conveyer or carrier.

It will be understood that the wire members of the basket or cup may be of galvanized iron or otherwise, and that said bas-

kets or cups may be compartmental, and that they may be in any number of groups or series.

I claim—

1. A device of the type described, including a cup or basket of spaced vertical malleable metal wire-members, said arrangement of wires being constricted near the lower ends of said wires, circular wire-members, threaded through the upper and lower ends of the aforesaid wires, and connected complementary plate-like members having opposed semi-circular formations embracing said basket or cup in the constricted portion of its wires.

2. A device of the type described, including a U-shaped member, complementary plate-like members having the upper ends of said U-shaped member connected thereto, said complementary plate-like members having opposed semi-circular formations and a cup or basket disposed in said semi-circular formations, substantially as described.

3. A device of the type described, including a plurality of baskets, each basket being formed of an arrangement of spaced malleable metal wires having eye-ended terminals and having a contracted bottle-neck conforming portion, annular wire-members threaded through said eye-ended terminals, parallel base-members having semi-circular formations adapted to embrace said contracted neck-conforming portion of said wire-arrangement.

In testimony whereof, I affix my signature, in presence of two witnesses.

HENRY R. GOTTHARDT.

Witnesses:

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R. S. CARSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."