

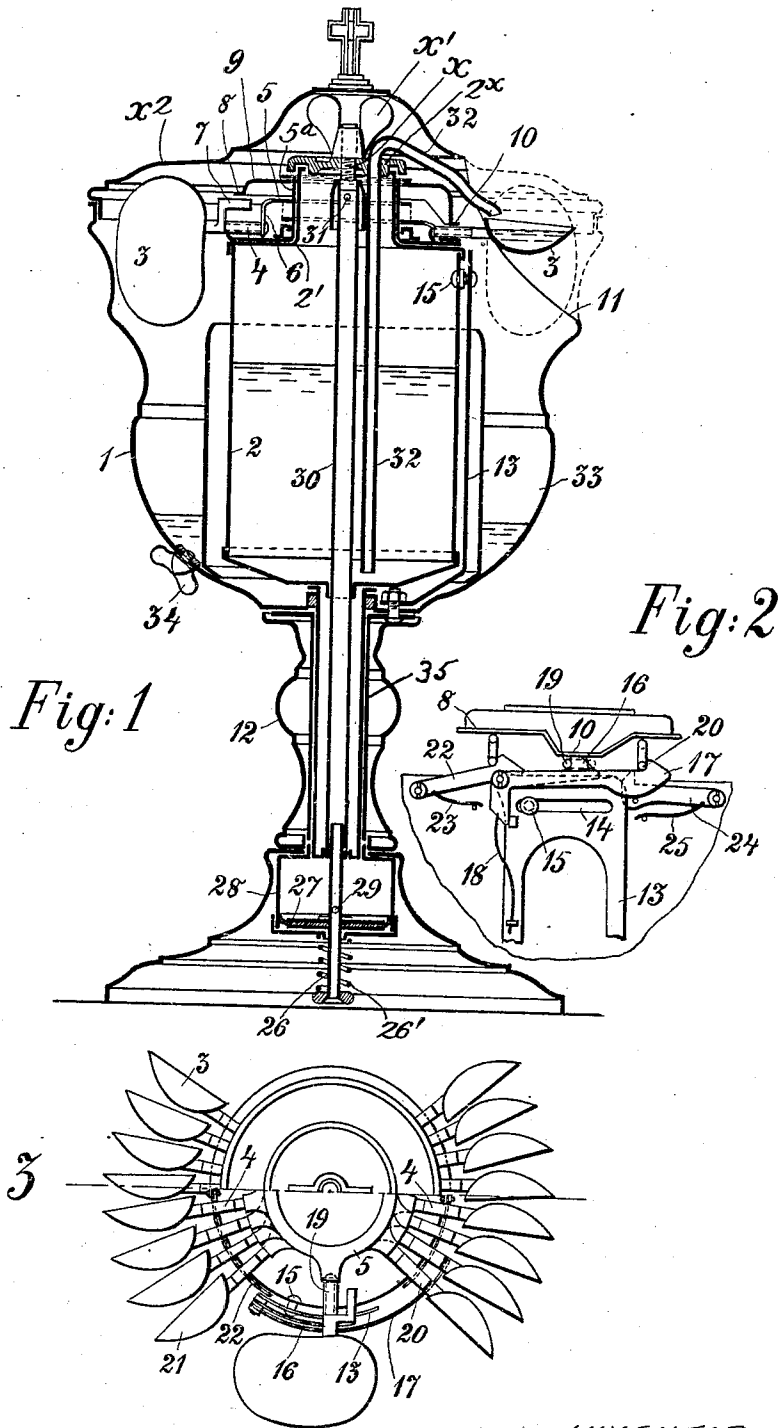
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CHALICE.

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WITNESSES

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CHALICE.

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To all whom it may concern:

Be it known that I, GUSTAF VALLEY, a citizen of Sweden, residing at Malmö, Sweden, have invented certain new and useful Improvements in Chalices, of which the following is a specification, 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 characters of reference marked thereon, which form a part of this specification.

This invention relates to a cup or chalice adapted to be used at communion services in churches.

The invention relates to a device whereby each communicant may have a separate receptacle to receive the wine from.

The invention consists in the features of construction and arrangement and combination of parts hereinafter described and particularly set forth in the claims.

The invention is illustrated in the accompanying drawings in which:—

Figure 1 is a vertical section through the chalice. Fig. 2 is an elevation of the mechanism for moving the cups. Fig. 3 is a horizontal view showing the cup rings, the upper and lower half of the figure being taken on different planes.

In the drawings, 1, represents the chalice in which is a wine receptacle 2 having a cover 2' having a reduced upper portion having an open end which is covered by a cover 2^x. On the said cover is located an angular ring 5^a which carries a plurality of rings 5 arranged one above the other, each ring 5 being provided with an arm 6 and all of said arms are so arranged that the lower ends lie in the same horizontal plane, each arm carrying a shaft 4 extending radially from the ring.

3 represents the cups, each of which is rotatably secured to the outer end of one of the shafts 4. The cups are so mounted on the arms that they tend to assume a vertical position, as shown in Figs. 1 and 3.

7 represents angle arms secured to the cups and rotatable around the shafts 4.

9 is a fixed ring carried by the ring 5^a and having an outer flange 8 which at one place is provided with a projection 10, see Figs. 1 and 2, pointing downward and is placed opposite to the recess 11 in the chalice 1. Thus it will be seen that when the arm 7 strikes said projection 10 it will be forced

downwardly and thus made to rotate around the shaft 4 and as said arm 7 is rigidly secured to the cup 3, said cup will be caused to assume the horizontal position shown in Figs. 1 and 3. The cup rests in this position as long as the arm 7 is below the projection 10, but when the arm leaves the projection it again assumes the vertical position due to gravity. The chalice is provided with a turnable portion 12 located between the body thereof and the base and this portion 12 is connected to a sleeve 35 which is connected with a vertical frame 13 located outside of the wine receptacle 2.

The upper part of the frame 13 is provided with a slot 14 in which engages a pin 15 secured in the wine receptacle 2. The frame 13 has two hooks 16 and 17 pivoted thereon, pressed upwardly by means of springs. Thus by moving the part 12 the frame 13 is also moved, but this movement is limited by the slot 14 and pin 15, and as the hooks 16 and 17 are carried by the frame, said hooks also are moved. The hook 16 engages the shaft of the cup which is forced down by the projection 10, and said shaft is indicated at 19 in Figs. 2 and 3. The hook 17 which is longer embraces the shaft of the next cup indicated at 20 in Figs. 2 and 3, so that in turning the part 12, the cups secured to the shafts 19 and 20 are moved from right to left, whereby the axle 19 is caused to leave the projection 10, while the shaft 20 is moved under said projection.

It will be seen that when the cups are under the projection 10 they are in filling position. When the frame 13 is turned back the hooks 16 and 17 are pressed up by means of their springs 18, and they then engage the next two cups. To prevent the cup last emptied from moving back, another hook 22 is provided which is pivoted to the wine receptacle and is pressed upward by a spring 23. Another hook 24 also fastened to the wine receptacle on the other side of the frame 13 engages the axle of the cup which is in turn to advance on this projection 10. As soon as the frame 13 begins to move the hook 24 is pressed upward by means of the spring 25 so that the following cups are prevented from participating in the rotation. Thus every time the portion 12 is shifted forward and back the last emptied cup will shift to the left a distance corresponding to the length of the slot 14, the next cup will take the place of the last

emptied one, and all other cups will be shifted accordingly.

When a cup has advanced to the horizontal position under the projection 10, it is filled through the following means. In the base of the chalice there is a vertical pipe 26, normally held in its lowest position by a spring 26'. To this pipe a piston 27 is secured, which fits in a cylinder 28. The pipe 26 is provided with a hole 29 which communicates with the cylinder and the pipe 30 connects the top of the pipe 29 by means of a hole 31 with the top of the wine receptacle 2. Thus when the pipe 26 is forced upwardly, the piston 27 forces the air in the cylinder 28 through the hole 29 into the pipe 30; from the pipe 30 the air passes through the hole 31 into the wine receptacle and forces the wine therein through the pipe 32 into the cup. If the cup is not emptied when it leaves the projection 10 and assumes a vertical position, the wine therein will pass into the chamber 33 located between the chalice and the wine receptacle. This chamber is drained by the plug 34. The top 2^x of the cover is held in place by a bolt X mounted in the upper end of the pipe 30 and a thumb screw X'; said cover 2^x pressing on the cover 2' forces the same down upon the top of the wine receptacle. The cover 2^x has its outer edge projecting over the top of the annular ring or cup 5^a and thus holds this ring in place. X² is the top of the chalice. When it is desired to remove the cups the thumb screw X' is removed, the cover 2^x taken off and the ring 5^a lifted out, and by removing the ring 9 the rings with the cups attached thereto may be removed.

I claim as my invention:—

1. A chalice comprising a body portion, a plurality of rotatable rings mounted in the upper portion thereof, a cup rotatably mounted on each ring, and normally occupying a vertical position, means for causing each cup to assume a horizontal position at one point in its movement, and means for supplying the cup while in a horizontal position with the wine.

2. A chalice comprising a body portion, a plurality of rotatable rings mounted in the upper portion thereof, a cup rotatably carried by each ring and normally occupying a vertical position, means for causing the cups to assume a horizontal position, means for supplying the cup while in a horizontal position with wine, and means for removably supporting the rings.

3. A chalice comprising a body portion, a plurality of rotatable rings mounted in the upper portion thereof, a shaft carried by each ring and extending radially therefrom, a cup rotatably carried at the end of each shaft, an angle arm connected with each cup, a ring 9 mounted above the angle arms and having a downwardly projecting portion

adapted to engage with the angle arms to force the same downwardly to cause the cups to assume a horizontal position, and means for supplying the cups while in a horizontal position with wine.

4. A chalice comprising a body portion, a plurality of rotatable rings mounted in the upper portion thereof, a radially extending shaft carried by each ring, a cup rotatably mounted on the end of each shaft and normally lying in a vertical position, an angle arm connected to each cup, a ring 9 located above the angle arm and having a downward projecting portion with which the angle arms engage whereby the cup will be caused to assume a horizontal position, means for supplying wine to the cups while in a horizontal position, a movable frame, and hooks thereon engaging with the shafts to rotate the rings.

5. A chalice comprising a body portion, a plurality of rotatable rings mounted in the upper portion thereof, a radially extending shaft carried by each ring, a cup rotatably mounted on the end of each shaft and normally lying in a vertical position, an angle arm connected to each cup, a ring 9 located above the angle arm and having a downwardly projecting portion with which the angle arms engage whereby the cup will be caused to assume a horizontal position, means for supplying wine to the cups while in a horizontal position, a movable frame, a pair of spring controlled hooks thereon adapted to engage with two of the shafts at a time for bringing said shafts under the projection, spring controlled stationary hooks, one preventing backward movement of the cups and the other allowing but one cup at a time to be engaged by the movable hooks.

6. A chalice comprising a body portion, a series of rotatable rings carried thereby, a cup carried by each ring and means for rotating the rings, comprising a movable portion of the handle portion of the chalice.

7. A chalice comprising a body portion, a cup removably held in the upper portion thereof, rotatable rings mounted in the cup, a cup carried by each ring and means for rotating the rings.

8. A chalice comprising a body portion, a wine receptacle within the body portion, a series of cups rotatably mounted in the upper portion of the chalice, a pipe extending from the wine receptacle adjacent the path traveled by the cups for delivering wine to said cups, a pipe extending from the top of the wine receptacle to the base of the chalice, a cylinder in the base connected with the pipe, a piston in said cylinder, and a rod in the base for operating the piston to supply compressed air to the top of the wine receptacle.

9. A chalice comprising a body portion.

a handle portion and a base, said handle portion being movable, a wine receptacle in the body portion having a reduced upper end, a series of rotatable rings mounted on said reduced portion, a cup carried by each ring, said cup normally occupying a vertical position, a projection for causing the cups to assume a horizontal position, means carried by the base of the chalice for forcing the wine from the wine receptacle into the cup while in a horizontal position, means con-

nected with the handle portion for rotating the rings, and a chamber surrounding the wine receptacle for receiving the waste wine from the cups.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

GUSTAF VALLEY.

Witnesses:

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A. W. ANDERSON.