

J. R. MYERS.
MACHINE TO OPEN THE FOOT OF A GOBLET.
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1,013,427.

Patented Jan. 2, 1912.

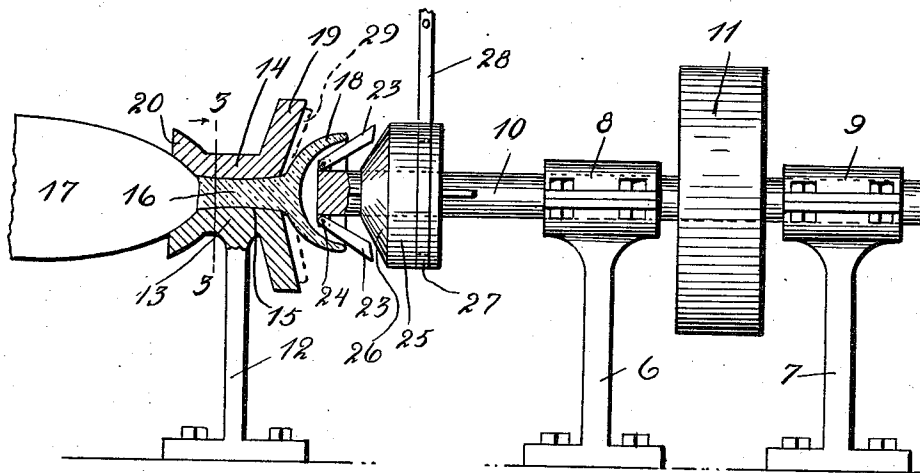


Fig. 1.

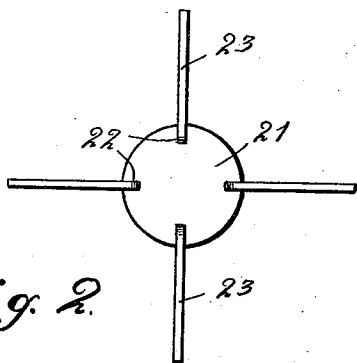


Fig. 2.

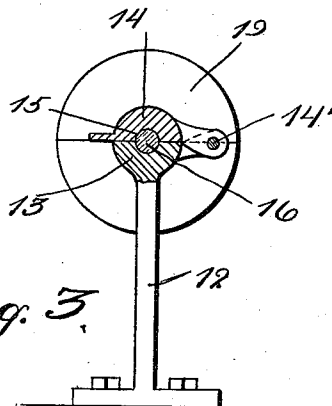


Fig. 3.

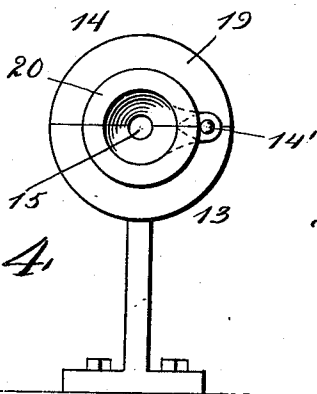


Fig. 4.

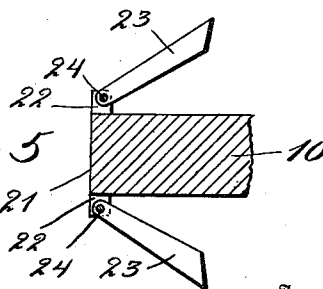


Fig. 5.

Witnesses

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MACHINE TO OPEN THE FOOT OF A GOBLET.

1,013,427.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES R. MYERS, a citizen of the United States, residing at Fairmont, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Machines to Open the Feet of Goblets, of which the following is a specification.

This invention relates to a machine for opening or spreading the foot of a goblet or for opening or spreading other analogous articles of glass ware.

The invention aims to provide a machine for this purpose, which will be simple in construction, easy to operate and cheap to manufacture.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same, Figure 1 is a side view of my machine, a portion thereof being shown in section, Fig. 2 is an end view of the spreading device, Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 1, and looking in the direction of the arrows, Fig. 4 is a front end view of the socket for holding the shank of the goblet, and Fig. 5 is an enlarged longitudinal sectional view taken through the spreading device.

In the drawings wherein is illustrated a preferred embodiment of my invention, the numerals 6 and 7 designate stationary uprights carrying at their upper ends bearings 8 and 9, respectively, through which is journaled a shaft 10. This shaft has a pulley 11 rigidly mounted thereon, which pulley is employed to rotate the shaft 10 and may receive its rotation from any suitable means (not shown). The shaft 10 is not capable of having any perceptible longitudinal movement.

Means are provided for holding the shank of a goblet while the foot of the goblet is being opened or spread. I have shown such means in the embodiment of a stationary upright 12, carrying at its upper end one co-acting member 13 of a socket. The numeral 14 designates the other co-acting member of said socket which is hinged to the member 13, as shown at 14'. As clearly shown in Fig. 3 the members 13 and 14 are provided with an axial opening 15 formed therethrough, for receiving the shank 16 of a goblet 17. This shank is pressed and carries a foot 18, having the shape, as shown. The co-acting member 14 may be

moved toward and away from the member 13 and suitable means, (not shown) may be employed to lock the member 14 in its closed position. The socket is provided at one end with an outstanding annular flange 19, which is formed in two sections, that are carried by the members 13 and 14. The flange 19 is shown as being angularly disposed with relation to the shank 15 and it is obvious that the amount of opening or spreading of the foot 18 will depend upon this angle of the flange 19 with relation to said shank. The socket is further provided upon its opposite end with an annular flange 20, adapted for the reception of the lower end of the bowl of the goblet and formed in two parts, which are carried by the members 13 and 14.

The device for spreading or opening the foot 18 of the goblet, comprises a preferably annular flange 21, which is rigidly mounted upon that end of the shaft 10 which is adjacent the upright 12. This flange is provided preferably at diametrically arranged points, with recesses 22 extending through the periphery of the same and within the recesses are pivoted spreading fingers 23, by means of pins 24. The spreading fingers 23 are capable of being swung outwardly in planes parallel to the longitudinal axis of the shaft 10 but said fingers cannot have any perceptible movements in planes transversely to said shafts, whereby the fingers 23 are made to rotate with the shaft 10. Simple means is provided to simultaneously swing all of the fingers 23 outwardly, such means comprising a head 25, which is splined upon the shaft 10, whereby said head is capable of moving longitudinally of said shaft but cannot rotate thereon. The head 25 has one end thereof formed in a frusto-conical portion 26, which when moved into engagement with the spreading fingers 23 will cause the latter to swing outwardly. The head 25 is provided upon its periphery with an annular groove within which is loosely mounted a ring 27, carried by the lower end of a shifting lever 28.

The numeral 29 designates the foot 18 after the same has been spread or opened and is shown as engaging the flange 19.

In the operation of the machine the goblet is positioned so that its shank 15 is held within the co-acting members 13 and 14 of the co-acting socket. The spreading fingers 23 will now be positioned in the concaved

portion of the foot 18. The shaft 10 is continuously rotated and the operator next moves the head 25 toward the fingers 23, so that said fingers are engaged by the portion 5 26. The fingers 23 are rotating with the shaft 10 and by virtue of the fact that the same are being swung outwardly, the foot 18 will be opened or spread until said foot has assumed the position indicated by the 10 dotted lines and designated by the numeral 29.

I wish it understood that the form of my invention herewith shown and described is to be taken as a preferred example of the 15 same and that certain changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

20 Having thus described my invention, I claim:—

In a machine of the character described, an upright, a socket mounted thereon for holding the shank of a goblet, said socket

comprising horizontally disposed separable 25 sections having hinged connection, said sections carrying at corresponding ends flanges to limit the spreading of the foot of the goblet, a horizontal rotatable shaft disposed 30 near and in end to end relation with said socket, stationary bearings for holding the rotatable shaft in its requisite position, means to rotate said shaft, said shaft being 35 provided at its end adjacent said socket with an annular flange having spaced recesses formed therein, spreading fingers disposed within the recesses and pivoted to the flange, and a head splined upon the rotatable shaft and having a frusto-conical face to engage the spreading fingers for oscillating the 40 same outwardly.

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

JAMES R. MYERS.

Witnesses:

J. P. KIRBY,
ROBERT SUTOR.

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