R. P. RHEINLANDER.

VACUUM CUP.

APPLICATION FILED MAY 14, 1917.

1,267,270. Patented May 21, 1918.

Fig. 1.

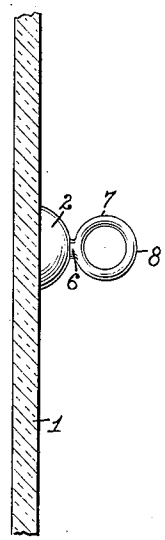
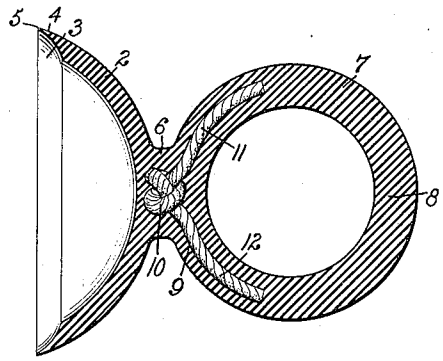


Fig. 2.



WITNESSES

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RUDOLPH PAUL RHEINLANDER, OF ST. LOUIS, MISSOURI.

VACUUM-CUP.

1,267,270. Specification of Letters Patent. Patented May 21, 1918.

Application filed May 14, 1917. Serial No. 168,418.

To all whom it may concern:

Be it known that I, RUDOLPH P. RHEINLANDER, a citizen of the United States, and a resident of St. Louis, in the county of St. Louis City and State of Missouri, have invented a new and Improved Vacuum-Cup, of which the following is a full, clear, and exact description.

This invention relates to vacuum cups and has for an object the provision of an improved construction wherein the holding cup structure will adhere permanently when once properly positioned.

Another object in view is to provide a vacuum cup structure in which a reinforced ring is connected with the cup in such manner that the reinforcing will take up the strain and distribute it over the cup.

In the accompanying drawing:

Figure 1 is a sectional view through a pane of glass with a device embodying the invention applied thereto.

Fig. 2 is an enlarged vertical section through the structure shown in Fig. 1.

Referring to the accompanying drawing by numerals, 1 indicates a pane of glass of any desired kind and 2 a cup-shaped member formed of rubber or other resilient material having a cutaway portion 3 whereby there will be a thin section 4 merging into an edge 5. This construction and arrangement of parts causes the cup 2 to firmly engage the glass pane 1 or other even surface as the thin section 4 is flattened to a certain extent and engages flatwise part of the pane 1.

Cup 2 merges into a neck 6, as shown in Fig. 2, which neck in turn merges into a ring 7. The outer section 8 of the ring 7 is made of rubber or other resilient material so as to act as occasion may desire, while the inner part of the ring is reinforced by a reinforcing member 9 formed of a cord or other suitable flexible reinforcing material. The member 9 is provided with a knot 10 fitting in neck 6 and reinforcing the neck, while branches 11 and 12 extend from knot 10 an appreciable distance around the ring 7 but not sufficiently far to interfere with the proper resilient action of the outer part 8.

This cup is especially adapted to be used for supporting tooth brushes or other articles where part of the article must be inserted through a ring or other receiving member whereby the construction described, namely, the resilient or stretchable section 9 and the reinforced neck, with the members 11 and 12, provide proper resistance or strength for supporting the article arranged in the ring 7.

What I claim is:—

A vacuum cup comprising a cup structure, a ring structure merging into said cup structure, and a flexible cord formed with a knot positioned at the juncture of the ring structure and cup structure and with a pair of supporting arms extending partly around said ring structure.

RUDOLPH PAUL RHEINLANDER.