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DESIGN.

W. F. RUSSELL.

GLASSWARE.

No. 13,645.

Patented Feb. 20, 1883.

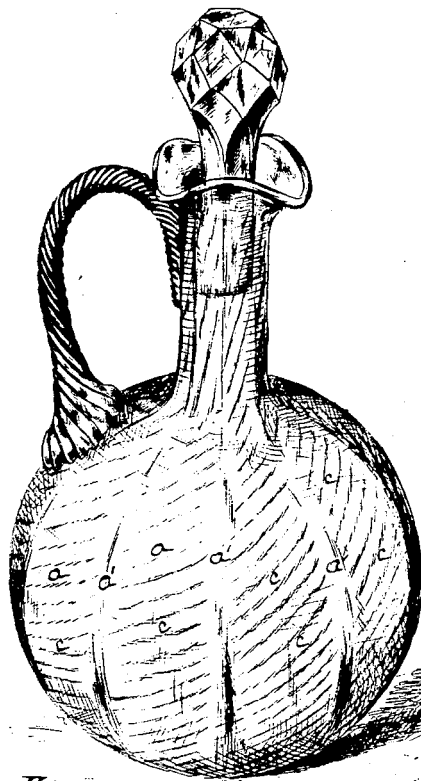


Fig. 1.

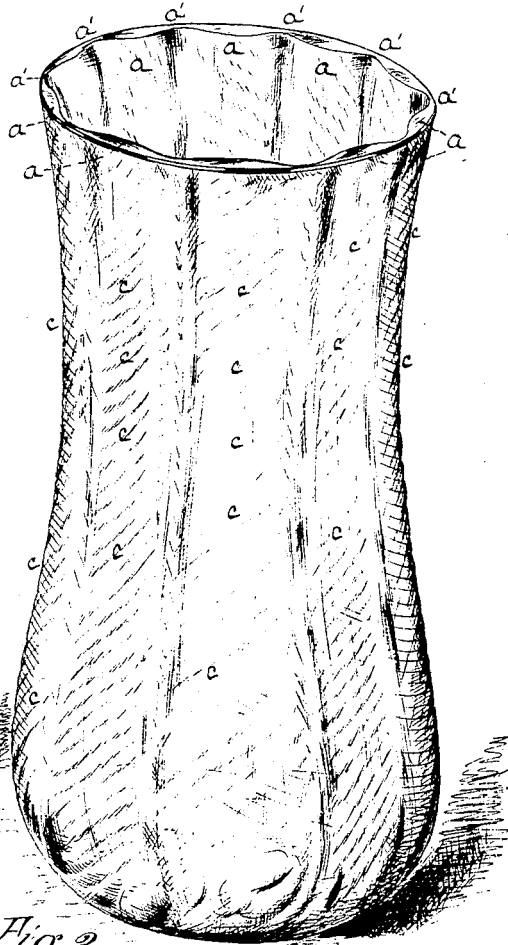


Fig. 2.

Witnessed  
*R. H. Whitcomb*  
*H. O. Potter*

Inventor William F. Russell  
By Attorney George H. Christy

# UNITED STATES PATENT OFFICE.

WILLIAM F. RUSSELL, OF WHEELING, WEST VIRGINIA, ASSIGNOR TO  
HOBBS, BROCKUNIER & CO., OF SAME PLACE.

## DESIGN FOR GLASSWARE.

SPECIFICATION forming part of Design No. 13,645, dated February 20, 1883.

Application filed November 3, 1882. Term of patent 14 years.

To all whom it may concern :

Be it known that I, WILLIAM F. RUSSELL, of Wheeling, county of Ohio, State of West Virginia, have invented or discovered a new and useful Improvement in Design for Glassware; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a view in perspective of a small decanter or vase illustrative of my new design; and Fig. 2 is a like view of a celery-glass or other like open-topped glass article, also illustrative of the same design.

I have shown my design as embodied in the two glass articles named simply for illustration, and not because I wish to confine myself thereto in the use of the same, because this design may be used with like pleasing effect in hollow articles of glassware generally, especially in such as are designed for table, sideboard, or other domestic use, as in decanters, pitchers, goblets, bowl-shaped articles, epergnes, lamps, glass shades, lamp-chimneys, &c.; and such design is included as within the scope of this patent without limitation as to the kind or class of articles to which it is or may be applied.

The leading feature of my design consists of vertical or nearly vertical ribs and spiral or horizontal corrugations. The ribs may consist of comparatively thick portions, as at *a*, Fig. 2, which extend up and down the body of the glass article, inside or outside, or both, with intervening thinner portions *a'*, and the relative as well as absolute breadths and thicknesses of the thick and thin portions may be varied at pleasure. The corrugations referred to are represented by the series of shaded lines *c*. I have shown them spirally arranged; but the angle of the spiral may be varied at pleasure, and, in fact, the same pleasing effects are produced when the corrugations *c* are horizontal, and such arrangement of the corrugations *c* is included herein. Preferably they are made comparatively fine or small,

pretty close together, and either sharp or rounded at the apexes and interlying valleys, as may be preferred. These corrugations may be in continuous lines, or they may be broken or interrupted, as along the hollows *a'* or at other points, and, in fact, they may extend around the article in zigzag lines, either broken or continuous. The same features are also illustrated in Fig. 1. The glass employed may be white or colored, at pleasure.

The pleasing or useful effects appertaining to this design result, in part at least, from the commingling reflections or refractions, or both, of light produced by the wavy surfaces of ribs and corrugations running in lines which intersect each other, or, if produced, would intersect; and such effects are found in the design in whatever form or kind of glass dish, vessel, or article it may be embodied. It is not essential that the parts *a* should be swelled on the inside, as shown in Fig. 2, as the desired effects may be attained by such variations of thickness as exist when the exterior periphery of the article is circular in horizontal cross-section (except as varied by the spiral corrugations) and the interior periphery is polygonal, or vice versa, and, as regards the general design, both interior and exterior peripheries in horizontal cross-section may be polygonal, the reflections and refractions of the polygonal surfaces then commingling with those of the transverse corrugations with like pleasing effect. The corrugations *c* may be fine and close together, or coarse and farther apart, at pleasure, and acute or obtuse, as desired.

I claim herein—

1. A design for glassware, substantially as described and shown.

2. The design of vertical ribbing and cross-wise corrugation for articles of glassware, substantially as described.

In testimony whereof I have hereunto set my hand.

WILLIAM FRANCIS RUSSELL.

Witnesses:

WILLIAM LEIGHTON, Jr.,  
AUGUST HEMEL.