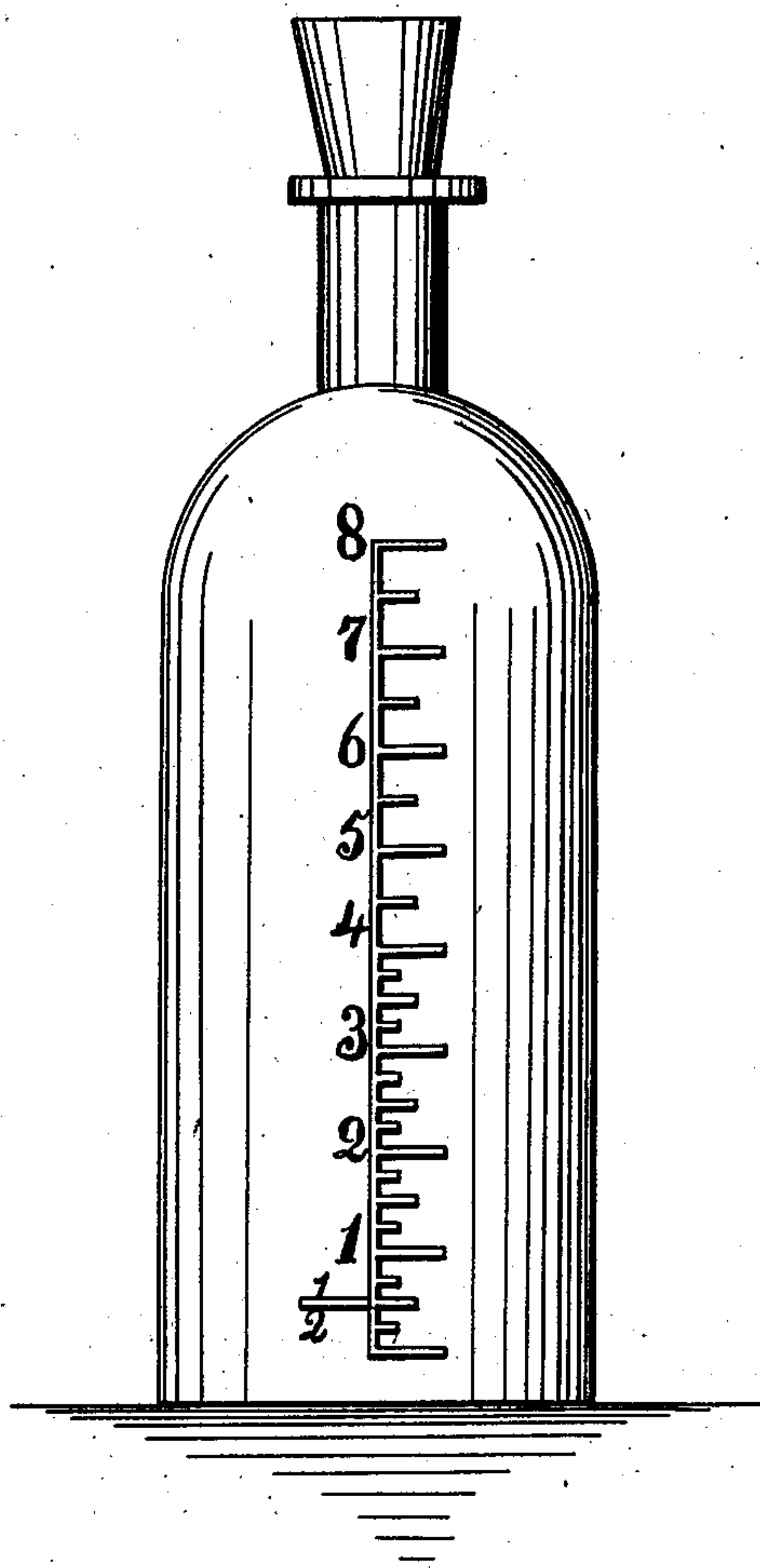


G. W. Stoetzel.

Graduated Bottle.

N^o 52,461.

Patented Feb. 6, 1866.



Witnesses;
J M Coeington
E L Topliff

Inventor;
Geo W Stoetzel
By Munn & Co
attys

UNITED STATES PATENT OFFICE.

GEORGE W. STOECKEL, OF PITTSBURG, PENNSYLVANIA.

IMPROVED GRADUATED BOTTLE.

Specification forming part of Letters Patent No. 52,461, dated February 6, 1866.

To all whom it may concern:

Be it known that I, GEORGE W. STOECKEL, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Graduated Bottles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing is a side elevation of a bottle which illustrates my improvement.

This invention constitutes an improved article of manufacture—to wit, a molded or pressed bottle having the common graduating-marks molded or pressed thereon.

I am well aware that bottles have been made with graduating-marks cut upon the surface thereof, and this I do not claim; but, so far as I am aware, a molded or pressed bottle with graduating-marks molded or pressed thereon at the time of manufacture is new. This constitutes my improvement.

I prepare molds for casting or pressing the bottles in the usual and most approved manner, the interior of the mold being provided with the necessary configurations, so that when the bottle is finished the graduating-marks will be apparent upon the exterior thereof, substantially as represented in the drawing. The making of the mold, the use thereof, and the production of the bottle may be done according to any of the most approved methods used in glass-making, care being taken to employ

skill and accuracy in the manufacture of the graduated bottle.

The common way of producing graduated bottles is to cut the graduating lines and figures upon the bottle by hand by means of stones and diamonds. This method is so very slow, difficult, and costly in its execution that it amounts to a practical prohibition against the general employment of graduated bottles, though their convenience and importance for common use is well understood. The cutting of the graduating-lines also tends to weaken the bottle and render it liable to fracture from a slight blow or jarring.

As a result of my improvement, I am enabled to produce graduated bottles at a very slight increase of expense over the ordinary plain bottles, and the graduating-lines not being cut, but pressed or molded upon the bottle, tend to strengthen the bottle.

My improvement also enables me to supply the public with a stronger, better, and cheaper graduated bottle than has ever been before known.

Having thus described my improvement, I claim as an improved article of manufacture—

A molded or pressed graduated bottle made substantially as herein described.

The above specification of my invention signed by me this 11th day of December, 1865.

GEO. W. STOECKEL.

Witnesses:

DANIEL VOLLMER,
AUG. L. SELLE.