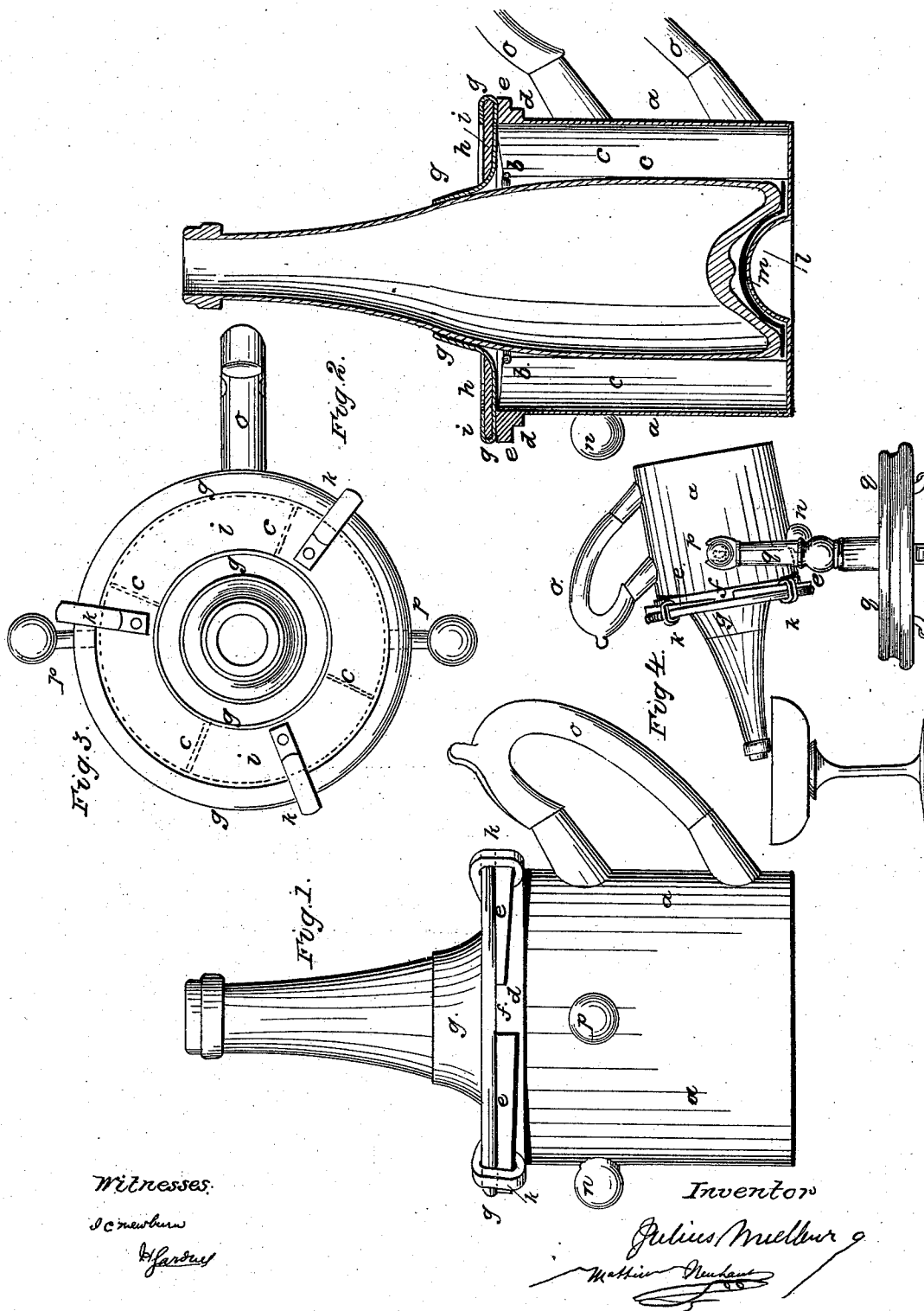


NUELLENS & NEUHAUS.

Wine Cooler.

No. 81,814.

Patented Sept. 1, 1868.



Witnesses:

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ENGLAND.

Letters Patent No. 81,814, dated September 1, 1868; patented in England, May 29, 1868.

IMPROVED WINE-COOLER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, JULIUS NUELLENS of Torquay, and MATTHIAS NEUHAUS, of London, England, have invented or discovered certain Improvements in Portable Apparatus for Cooling Wine or other liquids, in bottles or other like receptacles; and we do hereby declare that the following is a full, true, and exact description thereof, reference being had to the drawings hereto annexed; that is to say—

The apparatus at present in use for cooling wine or other liquids, in bottles or like receptacles, is defective, inasmuch that when it is desired to pour out some of the contents of the bottle, the bottle has to be removed from the apparatus, and being wet on the exterior, drops of water drip from it, and there is again a difficulty in replacing the bottle in the apparatus, owing to the ice in the apparatus getting in the way.

Now, our invention consists in constructing the apparatus in such manner that it can be tilted without any water escaping. Thus the contents of the bottle can be poured out without the necessity of removing the bottle from the apparatus.

We provide the apparatus with a water-tight cover, consisting, by preference, of a diaphragm, of vulcanized India rubber or other elastic water-proof material. This diaphragm has a hole in the centre, to pass over the neck of the bottle, while the edges of the diaphragm are turned over the outer edge of a plate, of annular form. The diameter of this plate is about equal to that of the rim or top edge of the apparatus. When a bottle, and ice or other cooling-medium, have been introduced into the apparatus, the hole in the diaphragm is passed over the neck of the bottle, and the cover is then fastened down by clamps, screws, or other convenient means. The elasticity of the diaphragm makes a tight joint round the bottle-neck, and the under side of the diaphragm being held down tightly upon the rim of the apparatus, makes a tight joint all round the same. We provide the apparatus with one or more handles for lifting and tilting it.

Our invention further consists in providing the apparatus with trunnions or axles, and in mounting it on a stand of any desired form or design, so that it can be tilted on its trunnions without being lifted. The axles are, preferably, cranked or bent, so that the bottle rises thereon when tilted. The stand is also provided with rollers or wheels, to allow it to be easily moved on a table.

Our invention will be more clearly understood by the annexed drawings, which represent one of our wine-coolers.

Figure 1 is an elevation of the cooler with a bottle therein.

Figure 2 is a vertical section, and

Figure 3 a top view or plan of the same.

Figure 4 represents the cooler mounted on a stand.

a is the exterior or outer case of the cooler. *b* is a ring, to receive the bottle and guide it while being inserted and withdrawn. *c c* are divisions in the annular space between the ring *b* and the exterior or case *a*. These divisions serve to support the ring *b*, and prevent the ice in the cooler getting all on one side.

The top of the case *a* is formed with a rim, *d*, which has several inclined under-cuts, at *e e*. *ff* are notches or recesses in the rim, corresponding with inclines *e e*. *g* is a diaphragm, of vulcanized India rubber. It has a hole, *h*, in the centre, to pass over the neck of the bottle, as shown, and the elasticity of the diaphragm produces a tight joint round the neck. The outer edge of the diaphragm *g* is turned up over the outer edge of an annular plate, *i*, as shown. *k k* are clips or hooks on the plate *i*. These clips, when the cover is being applied, are passed over the notches *ff*, and the cover is then turned partly round, to bring the clips under the inclines *e e*, whereby the diaphragm *g* is pressed tightly down upon the rim *d*, and a tight joint is made all round the same. *l* is a bulge or projection in the bottom of the case, corresponding with the ordinary recess in the bottom of the bottle.

When it is desired to impart a rotary motion to the bottle when in the cooler, for the purpose of freezing the contents, I apply a loose cap, *m*, upon the bulge *l*. The bulge *l* is smaller than the bulge of the cap *m*, so that there is little frictional resistance to the rotation of this cap with the bottle.

n is a knob by which to hold the cooler when turning the cover.

o is a handle for tilting or lifting the cooler.

p p are trunnions or axles, to support the cooler upon a stand, *q q*, as seen in fig. 4. These axles may, if desired, be bent or cranked, as before stated. They are flat on their under side, to prevent the cooler tilting accidentally. The stand *q q* is provided with casters or rollers, to allow it to run on a table.

What we claim, and desire to secure by Letters Patent, is—

1. Constructing or providing portable coolers or cooling-apparatus with a water-tight cover, substantially in the manner and for the purpose herein described and shown.

2. The combination, within the case *a*, of the series of divisions *c*, forming apartments and otherwise supporting the ring *b*, substantially as and for the purpose described.

3. The elastic diaphragm *g*, with central opening, *h*, and overlapping edges, in combination with the plate *i*, and suitable fastening-devices on said plate and the case *a*, substantially as and for the purpose described.

In witness whereof, we, the said JULIUS NUELLENS and MATTHIAS NEUHAUS, have hereunto set our hands, this fifth day of June, one thousand eight hundred and sixty-eight.

JULIUS NUELLENS,
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