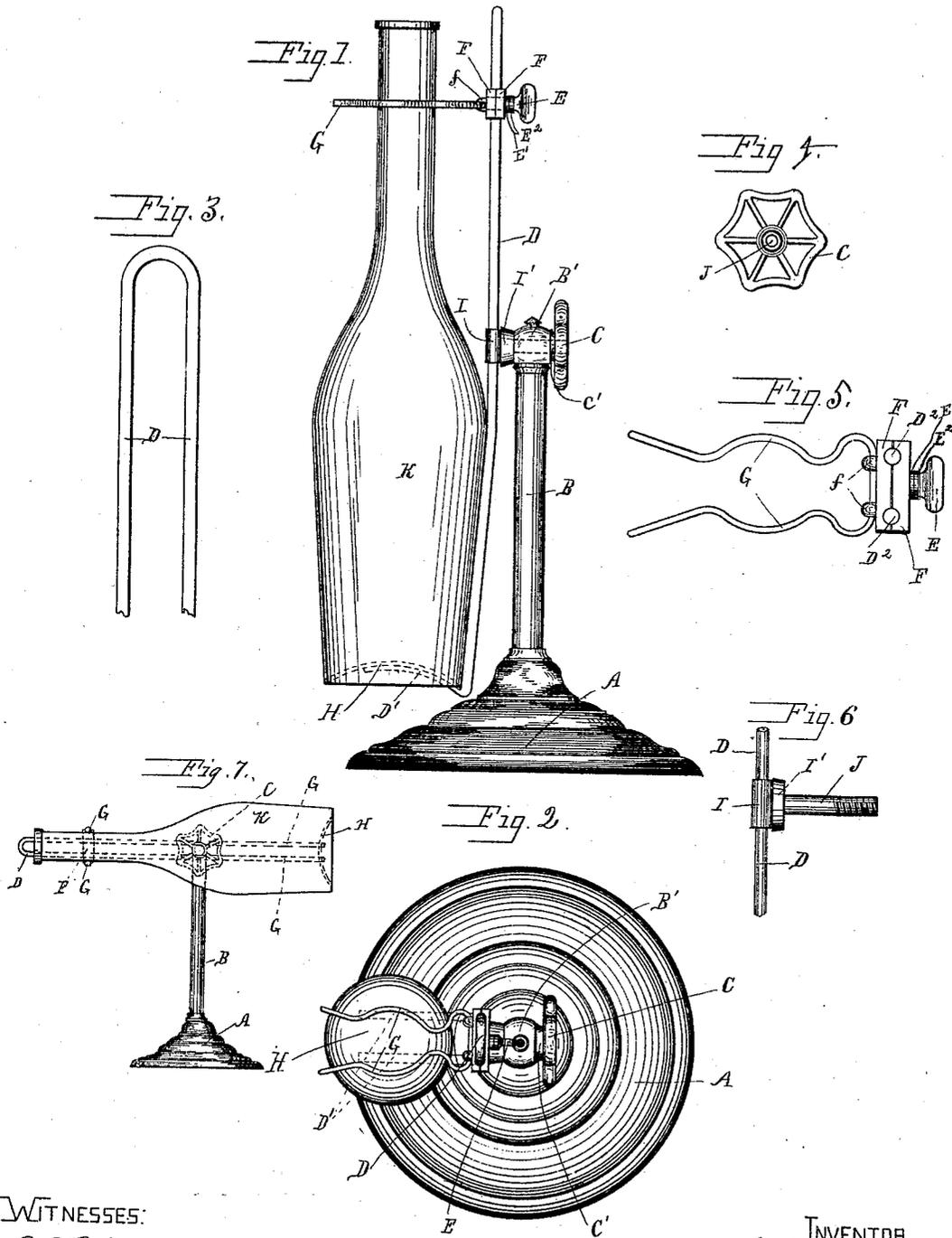


(No Model.)

J. H. NASON.
BOTTLE TILTING DEVICE.

No. 395,504.

Patented Jan. 1, 1889.



WITNESSES:

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JAMES HENRY NASON, OF BROOKLYN, NEW YORK.

BOTTLE-TILTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 395,504, dated January 1, 1889.

Application filed April 5, 1888. Serial No. 269,764. (No model.)

To all whom it may concern:

Be it known that I, JAMES HENRY NASON, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bottle-Tilting Devices; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which forms part of this specification.

My invention relates to bottle-tilting devices; and its objects are fully stated in the subjoined description and claim. I attain these aims by the device illustrated in the accompanying drawings, in which—

Figure 1 represents a side elevation of the bottle-tilter embodying the principles of my invention, having the bottle in place. Fig. 2 is a plan view of the same with the bottle removed. Fig. 3 is a partial detail view of the bent rod on which the neck-yoke reciprocates. Fig. 4 is a detail view of the operating-wheel. Fig. 5 is a detail view of the yoke, which slides on the bent rod shown in Fig. 3, showing the counterpart clamping-arms projecting therefrom to encircle the neck of the bottle. Fig. 6 is a detail view of the rigid bearing by which the device is pivotally mounted on the stand; and Fig. 7 is a view similar to Fig. 1, showing the bottle tilted.

In handling carbonated and effervescent beverages, as well as numerous chemical solutions, it becomes very important that the containing-vessel shall assume and maintain such a position relatively to the horizon that neither the evolution of gases nor the deposition of solid substances shall injuriously affect either the integrity of the vessel or the purity of the fluid periodically drawn out. Moreover, in manipulating chemical solutions it frequently becomes vitally essential that the vessels be not touched with the hand at all, and it often becomes a momentous question how a quantity of sulphuric acid, hydrofluoric acid, and analogous strong agents shall be poured from a bottle or carboy containing the same. The means employed to this end at present are at best clumsy and unsuitable of the manipulation of various forms or sizes of vessels, and do not effect the purposes of my invention. To supply this defect is the

aim of my invention, the use of which results in a clarification of the solution, and the retention, upon pouring, of the segregated sediment, as commonly illustrated in the process of decanting ales, wines, &c.

Upon a suitable stand or base, A, having the upright column B, perforated at B', to form a bearing for the threaded axle J, upon which the operating-wheel C is screwed, projecting from the rigid yoke I, to which the annular collar I' is attached, is mounted the bent rod D, having at its base the concave bed H, resting on the bent arms D', whereon the bottle K rests, and near its top the sliding yoke F, on the inner side of which is rigidly held the clamp G, having counterpart reversely-bent arms that pass through the bearing-lugs f, and on the outer side whereof is the set-screw E, by which the position of the yoke on the parallel rods is adjusted.

C' is the washer against which the wheel C abuts.

D'' are the holes in the sliding yoke F through which the bent rod D passes on oscillation.

E' E'' are abutting washers permitting the easy rotation of the set-screw E.

Having thus fully described my improvements, what I claim is—

The apparatus herein described for tilting bottles mechanically, consisting of a suitable stand having an upright bearing-column, a rod parallel to the column and bent at the lower end to form horizontal arms whereon the concave bed for holding the bottle rests, and having centrally a rigid yoke, wherefrom a pivotal operating-axis projects, to which a terminal hand-wheel is secured, and provided near the top with a sliding yoke having clamp-arms to encircle the neck of the bottle on one side, and a set-screw on the other side to adjust its position on the bent rod, in the manner and for the purpose herein fully shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES HENRY NASON.

Witnesses:

SAML. C. MILES,
J. H. ADRIANS.