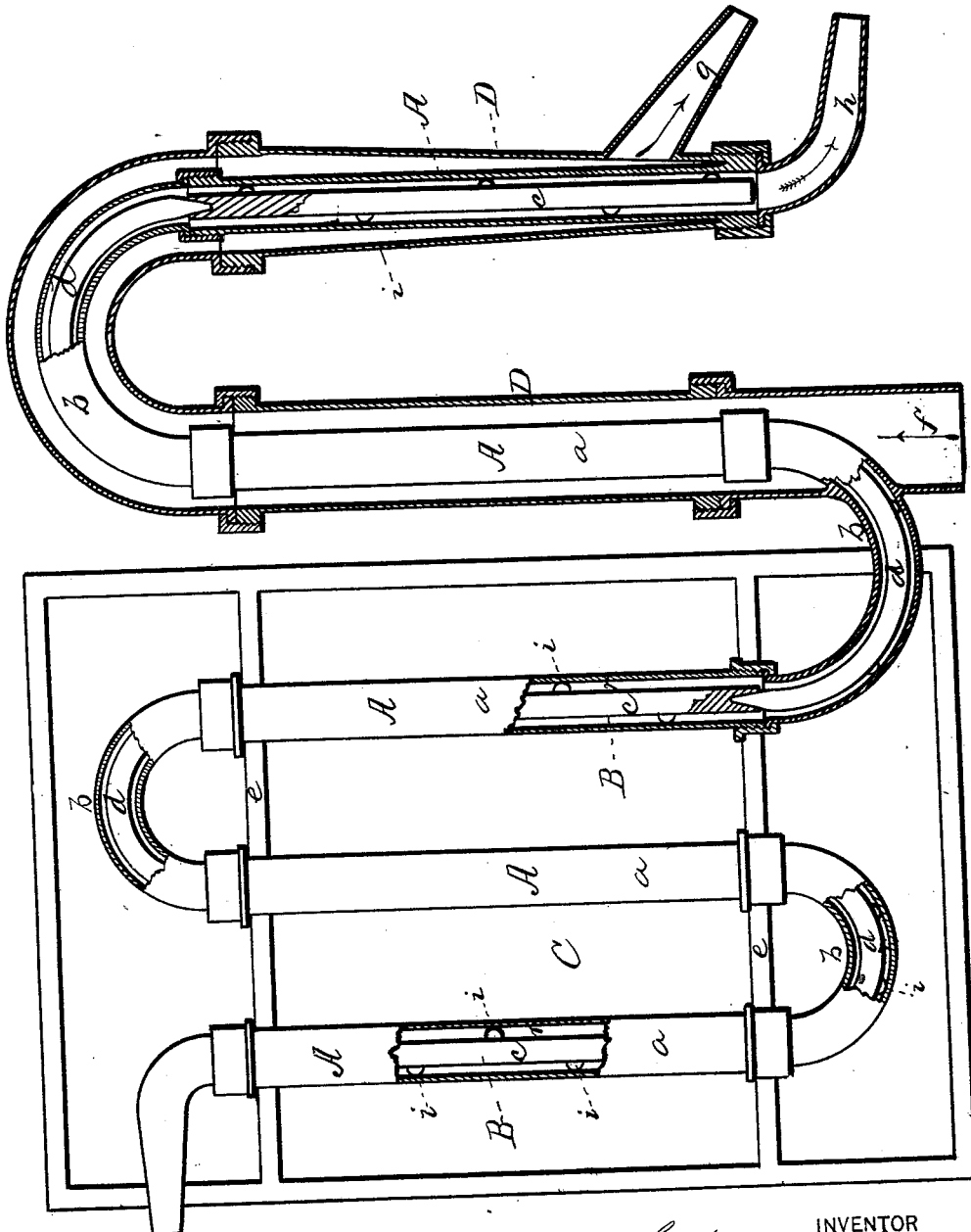


H. F. SCHMIDT.
Beer-Cooler.

No. 204,380.

Patented May 28, 1878.



WITNESSES
E. H. Bates
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H. FRANK SCHMIDT, OF QUINCY, ILLINOIS.

IMPROVEMENT IN BEER-COOLERS.

Specification forming part of Letters Patent No. **204,380**, dated May 28, 1878; application filed April 20, 1878.

To all whom it may concern:

Be it known that I, H. FRANK SCHMIDT, of Quincy, in the county of Adams and State of Illinois, have invented a new and valuable Improvement in Beer-Coolers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

The drawing is a representation of a top view of my improved beer-cooler, partly in section.

This invention has relation to improvements in devices for cooling beer and ale.

The nature of the invention consists in combining with a beer-cooling pipe having a continuous central wooden core, forming with the said pipe a narrow annular beer-passage, a jacket surrounding a portion of said pipe, and provided with an independent induct and educt for water, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates a retroverted pipe of any suitable metal, composed of the parallel parts *a* and the bent coupling-sections *b*, connected together in the usual way, and forming tight joints with each other.

Inside of the pipe A is a wooden rod, B, of less diameter than said coil, and forming therewith a shallow annular beer-passage, *r*. The rod B is continuous, and is composed of the straight sections *c* and the curved sections *d*.

The pipe-sections *a b* and the rod-sections *c d* are concentric with each other, respectively, and they are maintained in this relative position by means of the radial arms *i*, projecting

from the rod-sections, and bearing against the inner wall of the pipe. All or a portion of this pipe may be placed in an ice-box, C, being supported by a suitable cradle, *e*, therein, and designed to be covered with ice.

D indicates a metallic jacket, covering a portion of this pipe A—say one or more bends thereof—and connected by an ordinary pipe with a spigot or cock of a water-supply pipe or cistern, at *f*, and having a distinct educt, *g*, at a distance from the beer-educt *h* sufficient to prevent casual mixture of the liquids issuing from the said educts. The wooden core-rod B causes the beer to pass through the pipe A in a thin annular stream, and it is thus the more effectively acted upon by the ice in the box. The beer reaches the jacketed portion of the pipe in a partly-cool condition, and it is then subjected to the cooling action of a continuously-flowing stream of water in the jacket, so that it issues from the educt *h* in a cold state, the water escaping warm from the educt *g*.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a beer-cooling pipe having a central continuous wooden core extending through it, and forming a narrow annular passage next the pipe-wall, of a jacket surrounding said pipe, and having an induct and educt for the water, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

H. FRANK SCHMIDT.

Witnesses:

ERNST SCHWARZ,
MILLARD MYERS.