

No. 685,168.

Patented Oct. 22, 1901.

E. H. A. NIEMZ.
APPARATUS FOR COOLING BEER.

(Application filed Apr. 17, 1901.)

(No Model.)

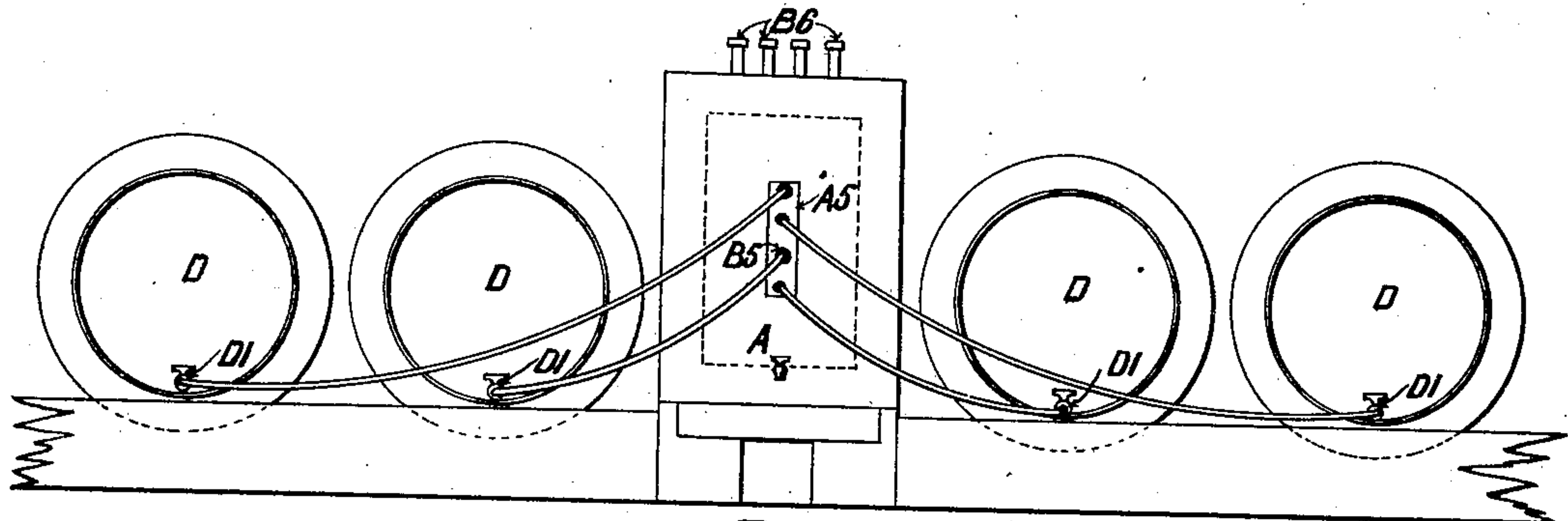


Fig. 1.

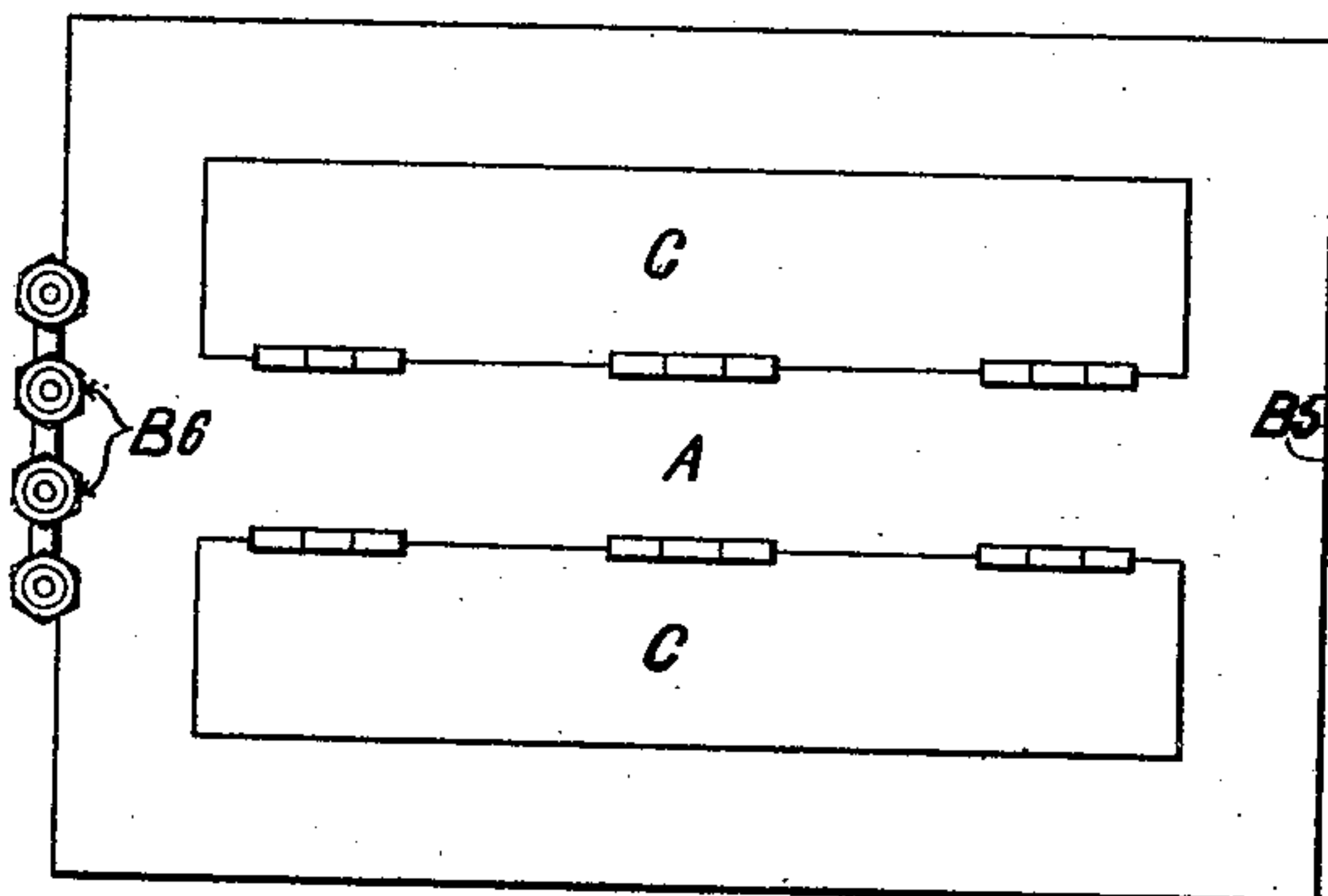


Fig. 2.

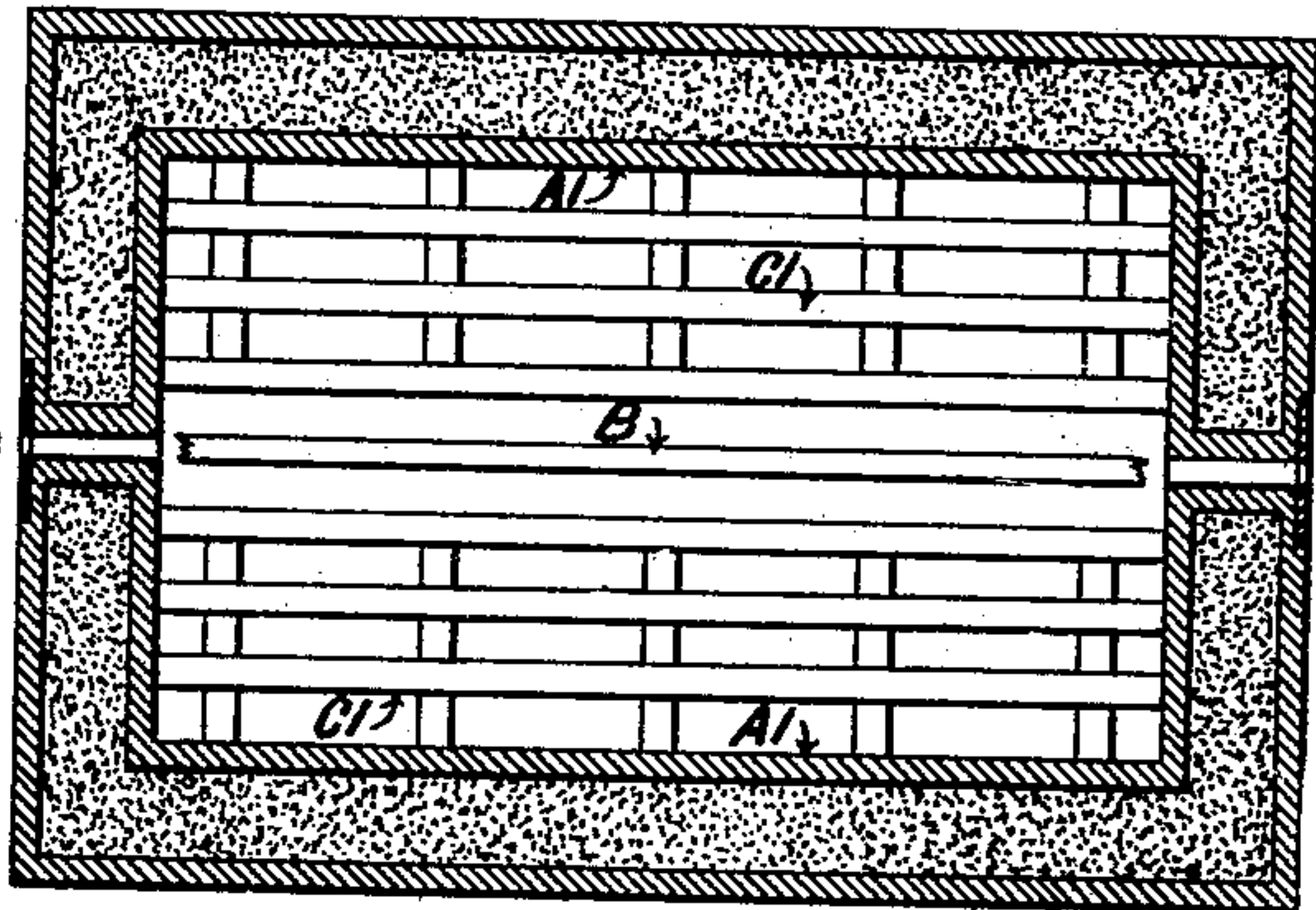


Fig. 3.

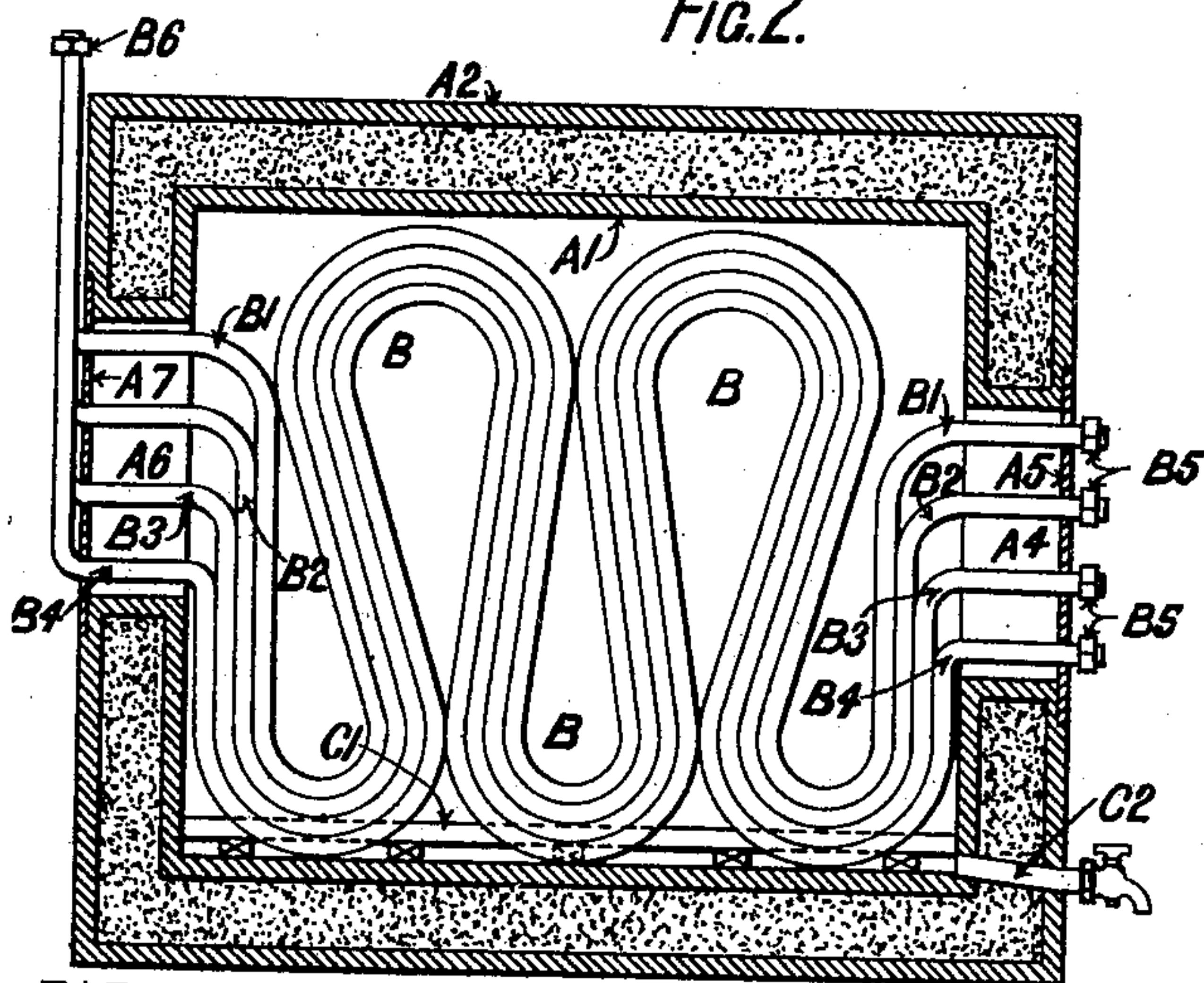


Fig. 4.

Witnesses
Clay Hewell.
M. J. Landrick

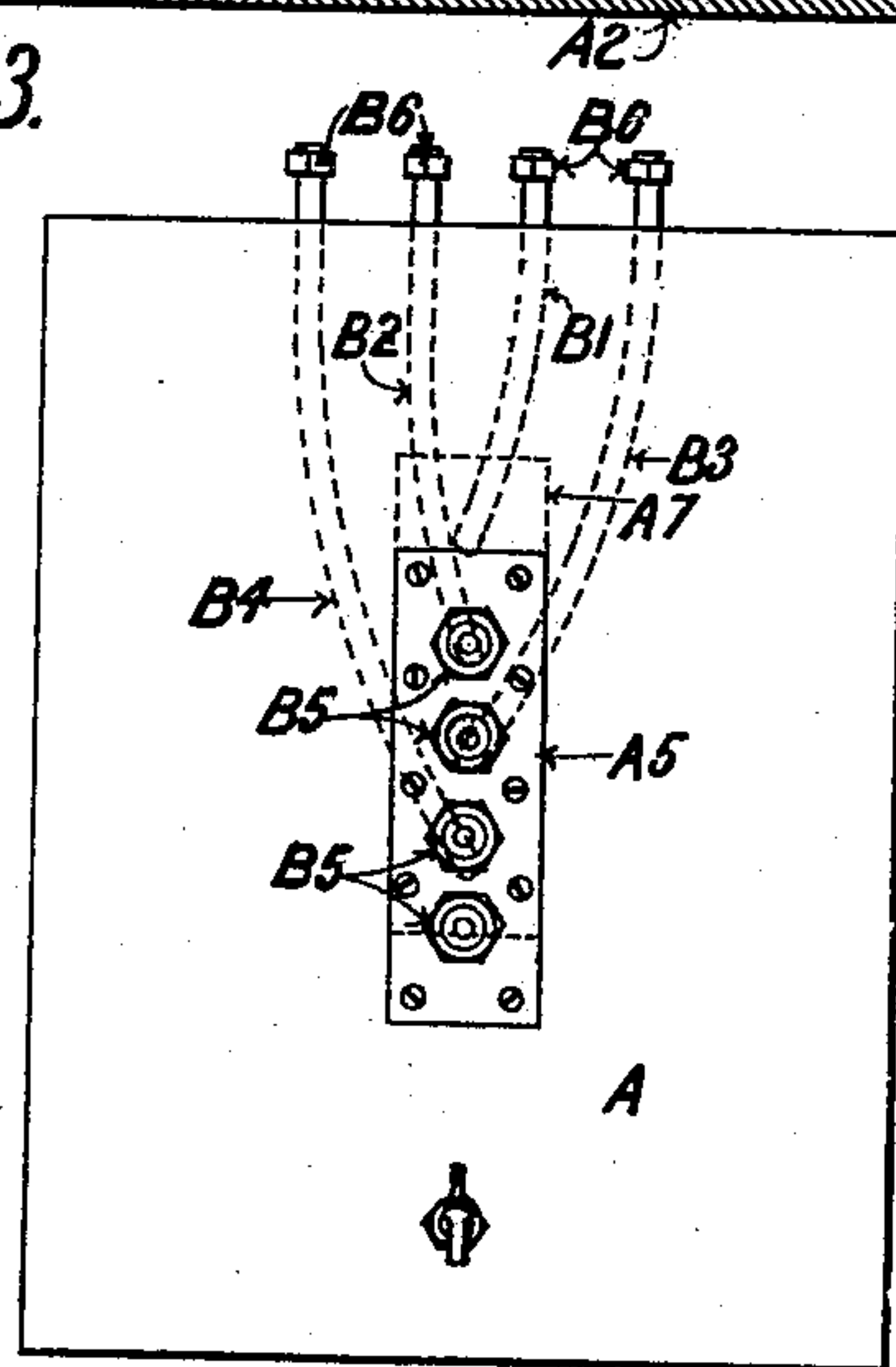


Fig. 5.

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APPARATUS FOR COOLING BEER.

SPECIFICATION forming part of Letters Patent No. 685,168, dated October 22, 1901.

Application filed April 17, 1901. Serial No. 56,282. (No model.)

To all whom it may concern:

Be it known that I, EMIL HUGO ALFRED NIEMZ, engine-turner, a subject of the King of Saxony and Emperor of Germany, residing at the New Barleymow Hotel, Park and Castle-reagh streets, in the city of Sydney and State of New South Wales, in the Commonwealth of Australia, have invented a new and useful Improved Apparatus for Cooling Beer from a Series of Casks while being Drawn, of which the following is a specification.

This improved apparatus for cooling beer from a series of casks while being drawn consists of a receptacle or chamber or box in which are coiled a number of pipes corresponding to the number of casks from which beer is to be drawn. The ends of these pipes are parallel to one another horizontally at the entry end and also at the exit end and so arranged that the center only of the receptacle or chamber will be occupied by them, leaving the inside outwardly of the pipes for the reception of ice or cooling medium. There are provided at the top covers to each side of the receptacle or chamber for the filling in of said ice or cooling medium. The receptacle or chamber is of course surrounded by non-conducting material or packing to retain the cold within said chamber or receptacle. The entry ends of the pipes are provided with unions, as also are the exit ends for the connecting up, respectively, of pipes from the casks and pipes from the pump or drawer.

In order that this invention may be clearly understood, reference will now be made to the drawings herein, in which—

Figure 1 is an elevation of the entry end of this improved apparatus for cooling beer connected to four casks. Fig. 2 is a plan of said apparatus; Fig. 3, a horizontal section of the same; Fig. 4, a vertical longitudinal section, and Fig. 5 a front or exit end view.

A is the receptacle or chamber or box, and B the cooling-coils therein. This box consists of inner and outer casings A' and A², between which is the non-conducting filling or packing.

A⁴ is the entrance-orifice, having thereon plate or cover A⁵, and A⁶ is the exit-orifice, having thereon plate or cover A⁷.

C represents covers to this receptacle of ordinary construction for this class of work.

C' is a grid or grating, and C² is the drain-pipe. The cooling-coils B consist of pipes B', B², B³, and B⁴, having at their entrance end the female couplings B⁵ and being turned up outwardly of the receptacle to the exit female coupling B⁶. As shown, a pipe, preferably a flexible pipe, is connected to the tap or cock D' of casks D and to the female coupling B⁵, while the couplings B⁶ are connected to the suction apparatus on the counter of a dispensing establishment. Through the doors C of the box or receptacle ice is supplied, resting upon the grid C', but leaving a space between itself and the coils of piping B. When desired, drainage is removed through pipe and cock C² and fresh ice is supplied through the doors C. The beer being drawn through either of the pipes, respectively B', B², B³, or B⁴, is during its passage through them thoroughly cooled and reaches the dispensing apparatus at a comparatively very low temperature with but slight expenditure either in first cost or in maintenance.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

In a beer-cooling apparatus, a casing consisting of a double-walled structure, heat-insulating material between the walls of said casing, a plurality of closely-engaging pipes coiled in said casing, the pipes at one end thereof being superposed and extending through an orifice in the casing, the opposite ends of the pipes being disposed horizontally in superposed order and then vertically side by side outside the casing, the horizontal portions extending through a second orifice in the casing, and said coils being arranged midway between the side walls of the casing and grids on the bottom of the casing at opposite sides of said coils.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EMIL HUGO ALFRED NIEMZ.

Witnesses:

PERCY NEWELL,
M. J. CANDRICK.