

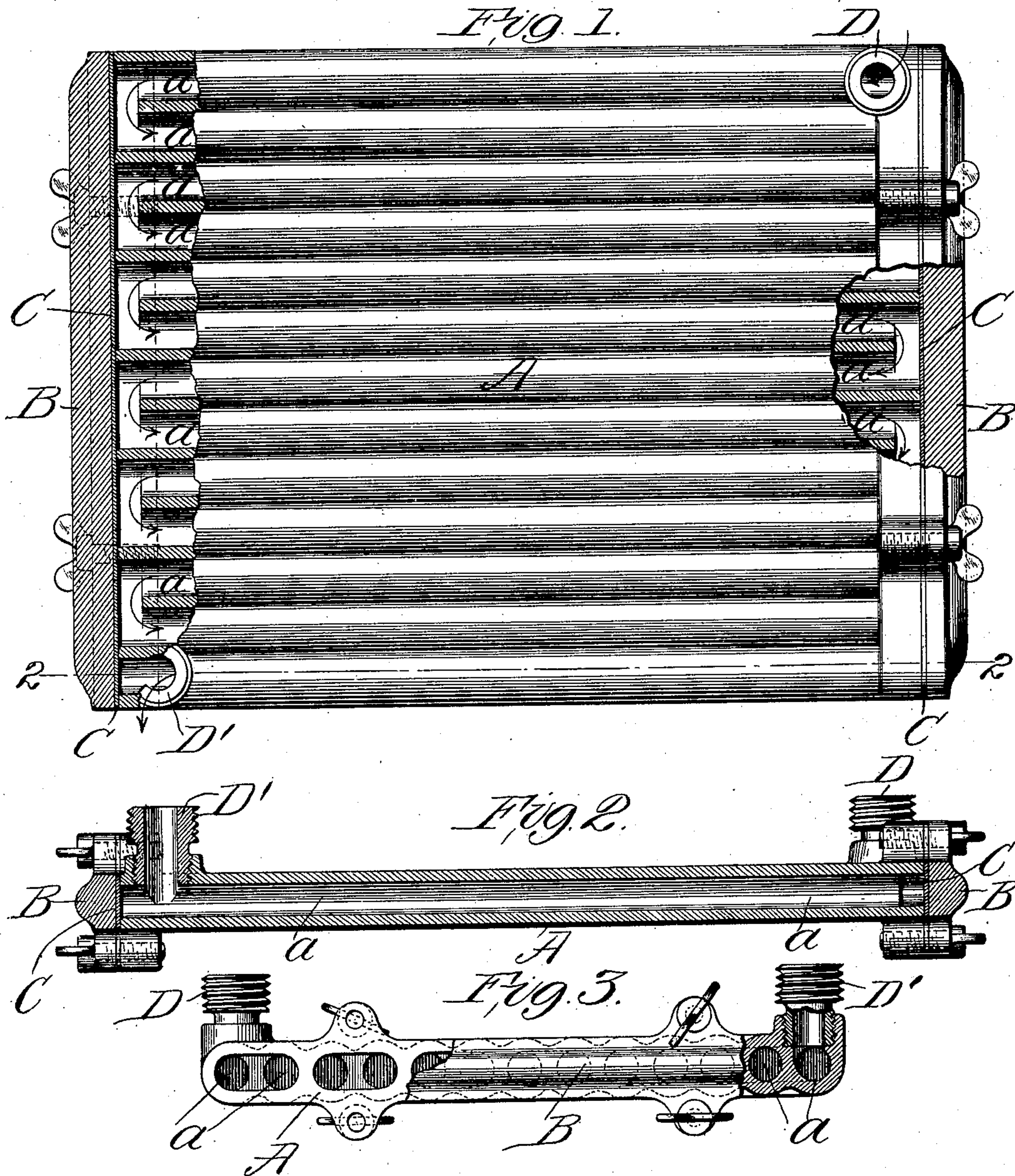
No. 691,790.

Patented Jan. 28, 1902.

B. W. MASON.
LIQUID COOLING DEVICE.

(Application filed Jan. 26, 1901.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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TO JAMES M. SUTHERLAND, OF ST. LOUIS, MISSOURI.

LIQUID-COOLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 691,790, dated January 28, 1902.

Application filed January 26, 1901. Serial No. 44,814. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN W. MASON, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Liquid-Cooling Devices, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view, partly in section. Fig. 2 is a vertical longitudinal sectional view on line 2 2, Fig. 1; and Fig. 3 is an edge elevational view, partly in section.

This invention relates to a new and useful device for cooling liquids, the same being particularly designed for beer; and it has for its object to provide a simple, inexpensive, and practical device of that character, the same being so constructed that it can be easily removed, cleaned, and replaced in an ice-chest in a very short length of time and with little inconvenience to the person removing and replacing the same.

My invention is designed to take the place of the usual coil of pipe now generally in use in ice-chests and through which beer or other liquids are caused to pass for the purpose of cooling the same. The objection to the ordinary coil of pipe for this purpose is that it is exceedingly difficult to clean, and the deposit formed therein, aside from being unsanitary, will in time so clog or fill the coil of pipe to such an extent as to render the device inoperative. In my device this objection is entirely obviated, as will hereinafter be described.

In the drawings, wherein like characters designate like parts throughout the several views, A indicates the body portion of my device, which is preferably in the form of a metallic casting having a plurality of cylindrical parallel channels *a* formed there-through. Each one of these cylindrical channels *a* is separated from its next adjacent one by a partition or wall which extends to the edge of the body portion at one end, but terminates short of the edge at its other end. These portions are alternate in their construction in that where one end of the same terminates short of one edge of the body the

next adjacent partition extends to the extreme edge of the body at the same edge, as is clearly shown in Fig. 1.

B indicates heads which are secured to the outer edges of the body, preferably by means of winged screws, although it is obvious that other fastening devices may be used, if desired.

C indicates gaskets formed of rubber, leather, or other suitable material, the same being arranged and clamped between the heads B and the edges of the body portion of the device for rendering the joint liquid-tight.

D and D' represent nipples which are in communication with the two outer channels *a a* of the body portion A and are designed to serve as inlet and outlet passages for the liquid to be circulated through the channels *a*.

I am aware that minor changes in the arrangement, construction, and combination of the several parts of my device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In a device of the character described, the combination with the body portion in the form of a casting A having a plurality of parallel cylindrical passages *a* arranged in a plane and extending through said body portion, said passages communicating with each other by having their division-walls stopped short of the extreme edge at alternate ends, perforated nipples which communicate with each of the outermost passages *a*, said nipples being arranged on the upper side of the casting and at diagonally opposite corners thereof, heads arranged on each end of said body portion for closing the ends of the passages *a*, and means for separately securing said heads to said body portion; substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 21st day of January, 1901.

BENJAMIN W. MASON.

Witnesses:

WM. H. SCOTT,
GEORGE BAKEWELL.