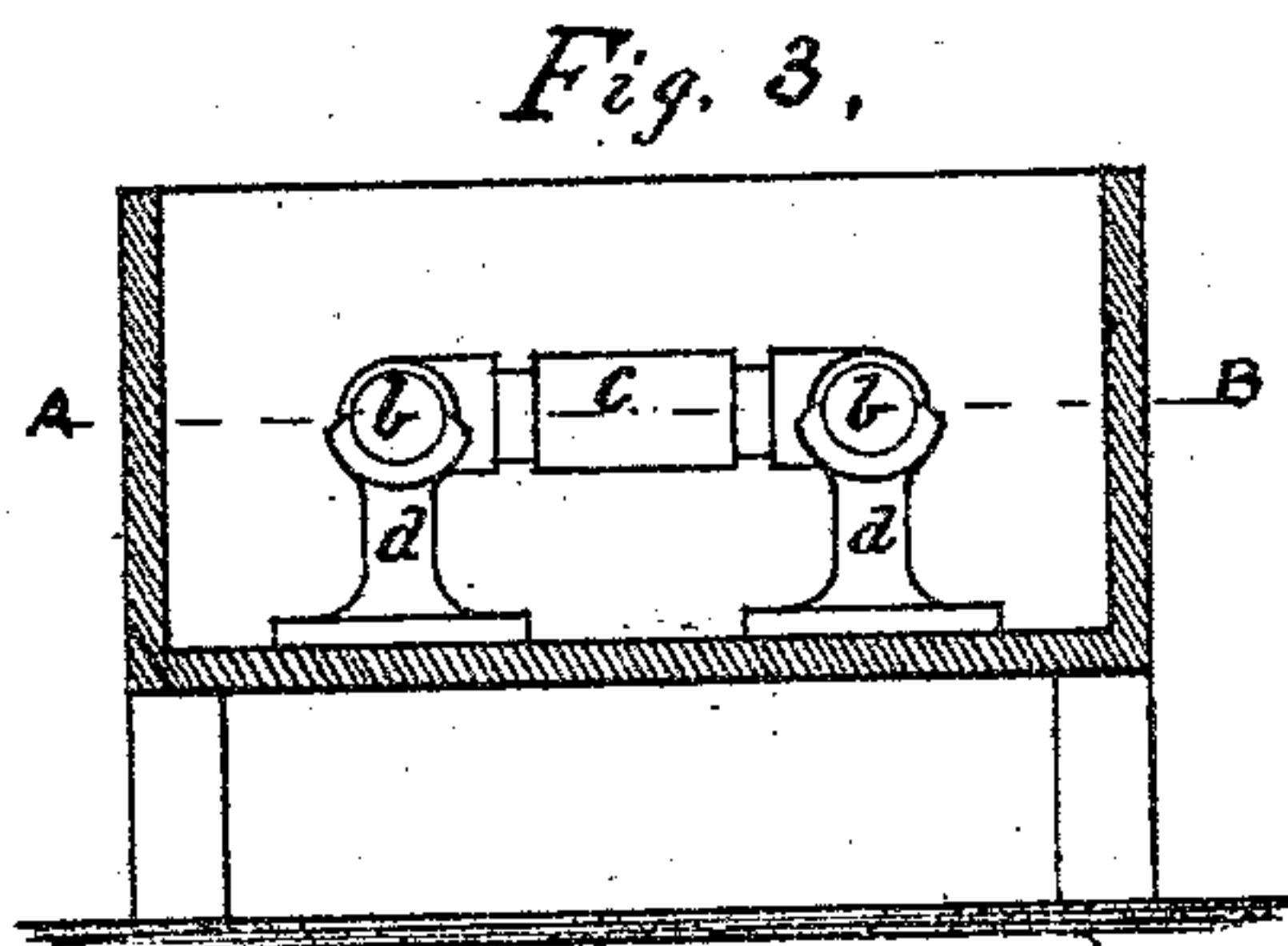
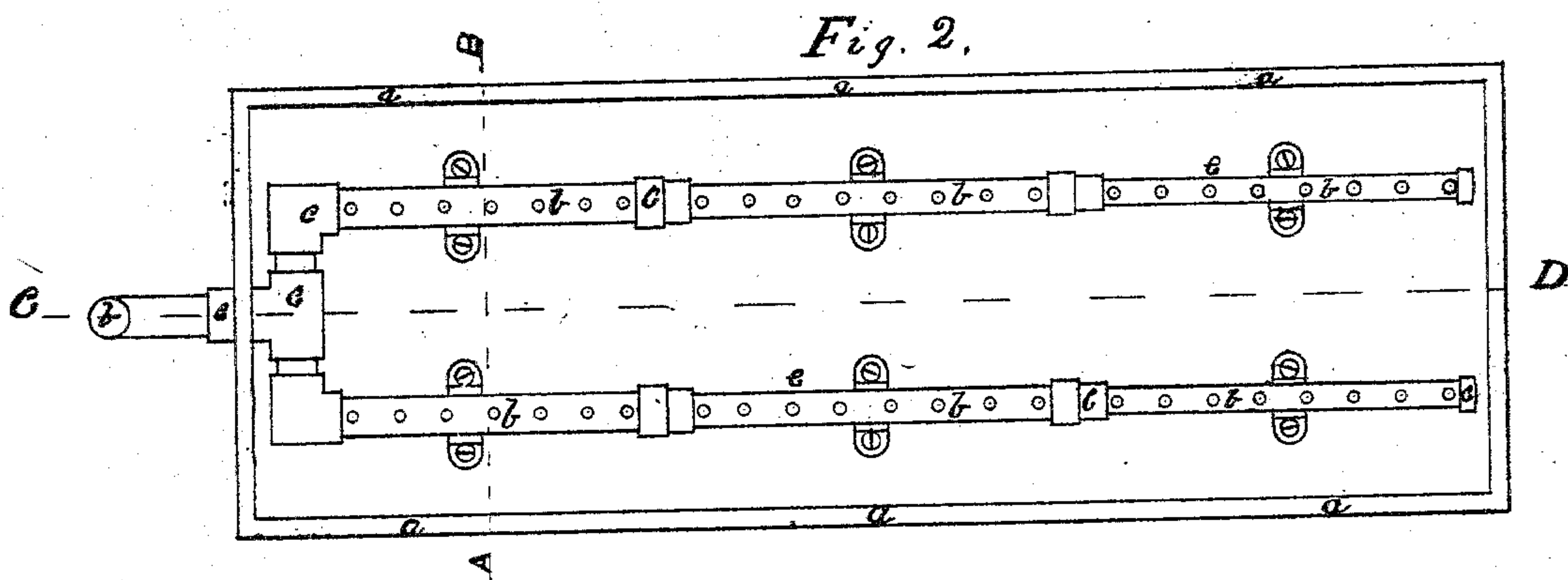
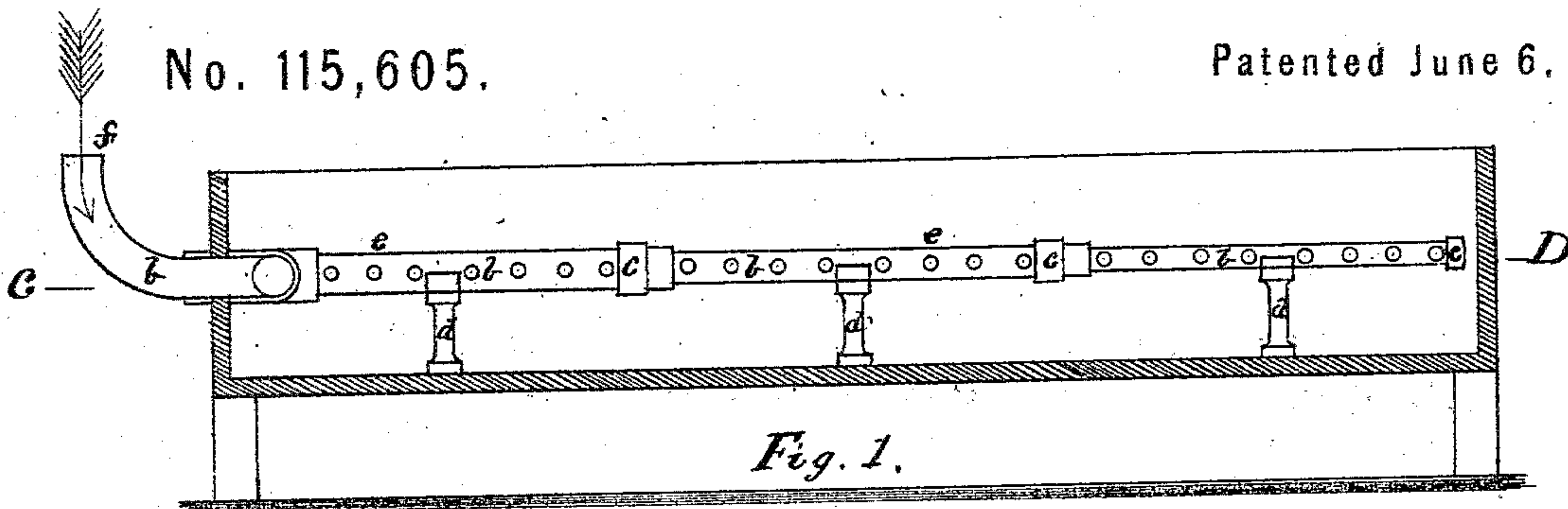


JACOB F. HARLY.

Improvement in Milk Coolers.

No. 115,605.

Patented June 6, 1871.



Witness
John S. Clause,
Philip Perry

Inventor
Jacob F. Harly
by Clause & Perry

UNITED STATES PATENT OFFICE.

JACOB F. HARLY, OF CLEVELAND, OHIO.

IMPROVEMENT IN MILK-COOLERS.

Specification forming part of Letters Patent No. 115,605, dated June 6, 1871.

I, JACOB F. HARLY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain Milk-Cooler, of which the following is a specification:

My invention relates to that class of milk-coolers which performs the office of cooling by forcing atmospheric air through the milk through the medium of perforated tubing contained in the bottom of the milk-vessel; and it consists in using for such purposes tubing whose diameter is gradually decreased from the size at the end of air-inlet to its extremity; the object and effect being the attaining uniformity of pressure of the forced air.

Figure 1 represents a longitudinal of Fig. 2 at C D; Fig. 2, plan; Fig. 3, cross-section, A B.

a represents a wooden tub into which sections of perforated tubing *b* are placed on

standards *d*. Perforated tubes *b* are larger at the inlet *f* than at the extreme end, so as to have an equal amount of pressure over full length of tubing. The sections of perforated tubing are connected by means of screw-couplings, so that they may be easily taken apart and cleansed.

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

The perforated tubing *b*, whose diameter, for the purpose of obtaining uniformity of pressure, is gradually reduced in size from the inlet *f* to the extremity, when constructed and applied substantially as described.

JACOB F. HARLY.

Witnesses:

JOHN J. CLAUSE,
PHILIP PERRY.