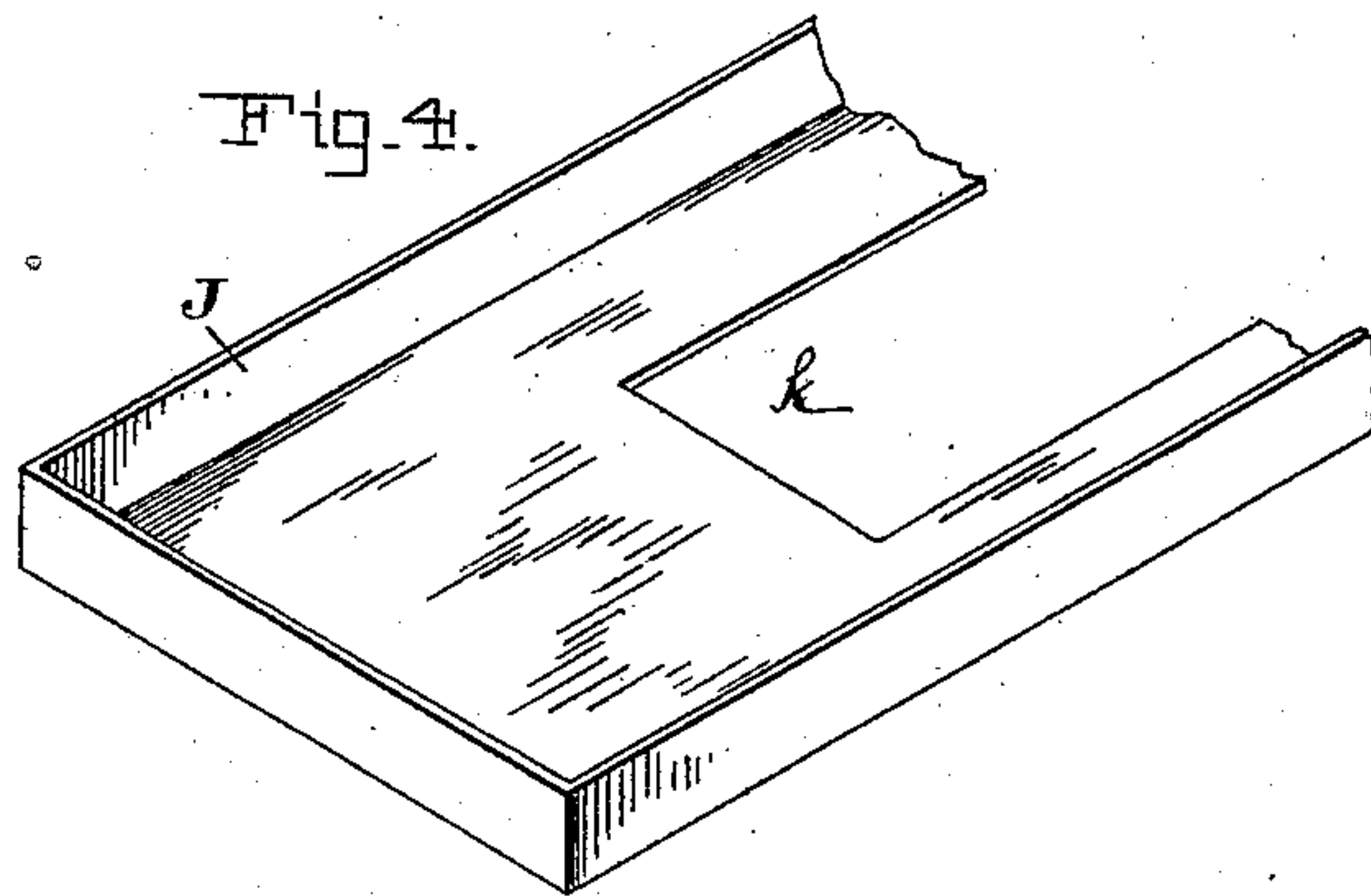
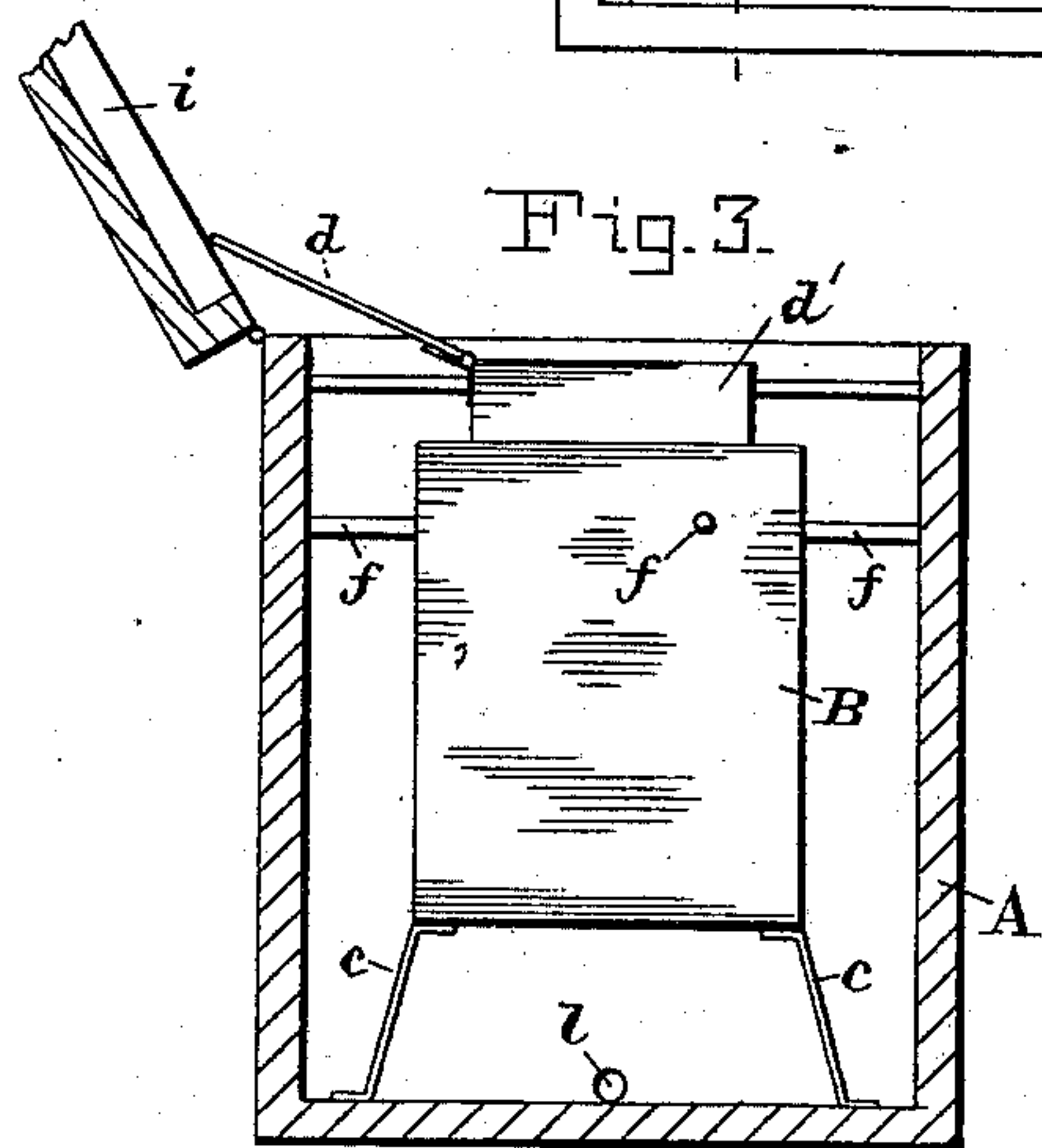
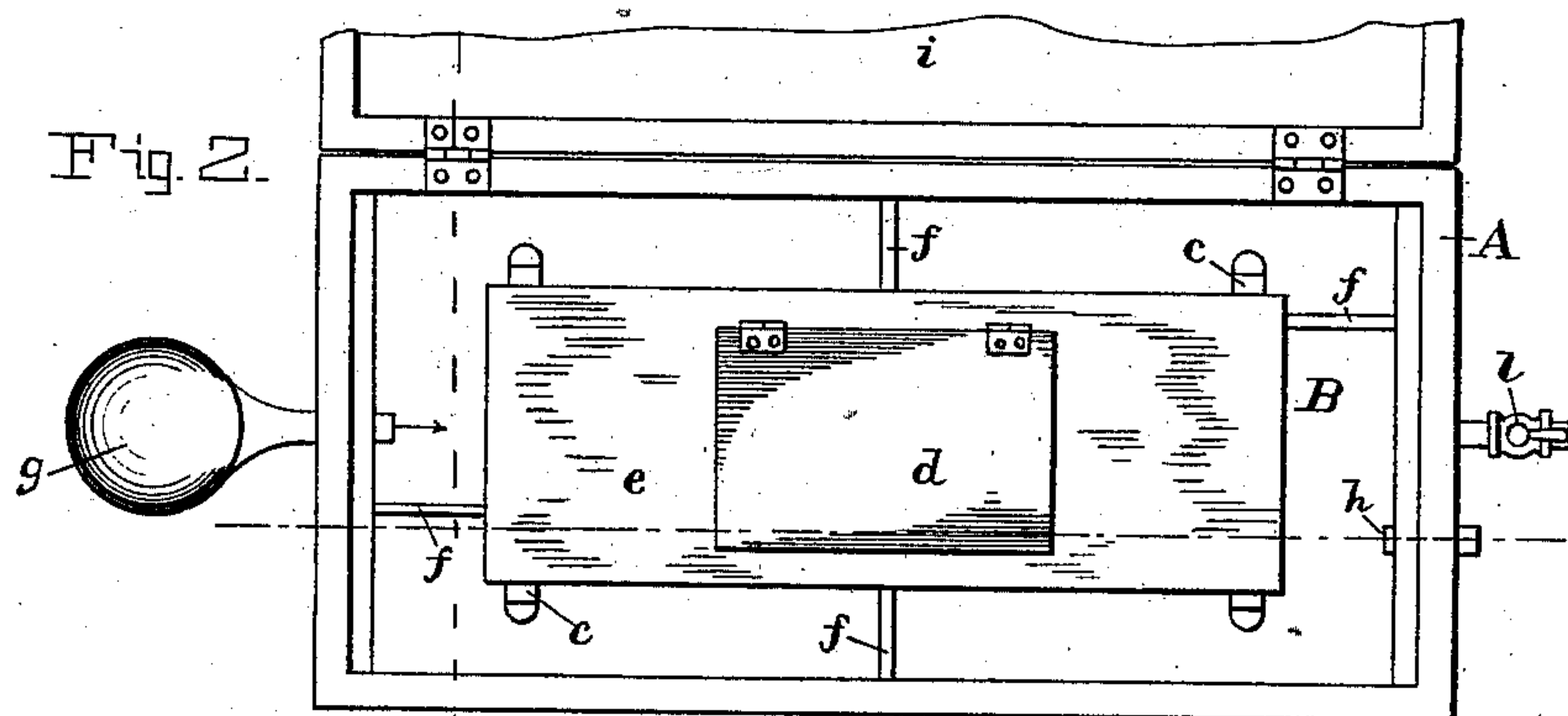
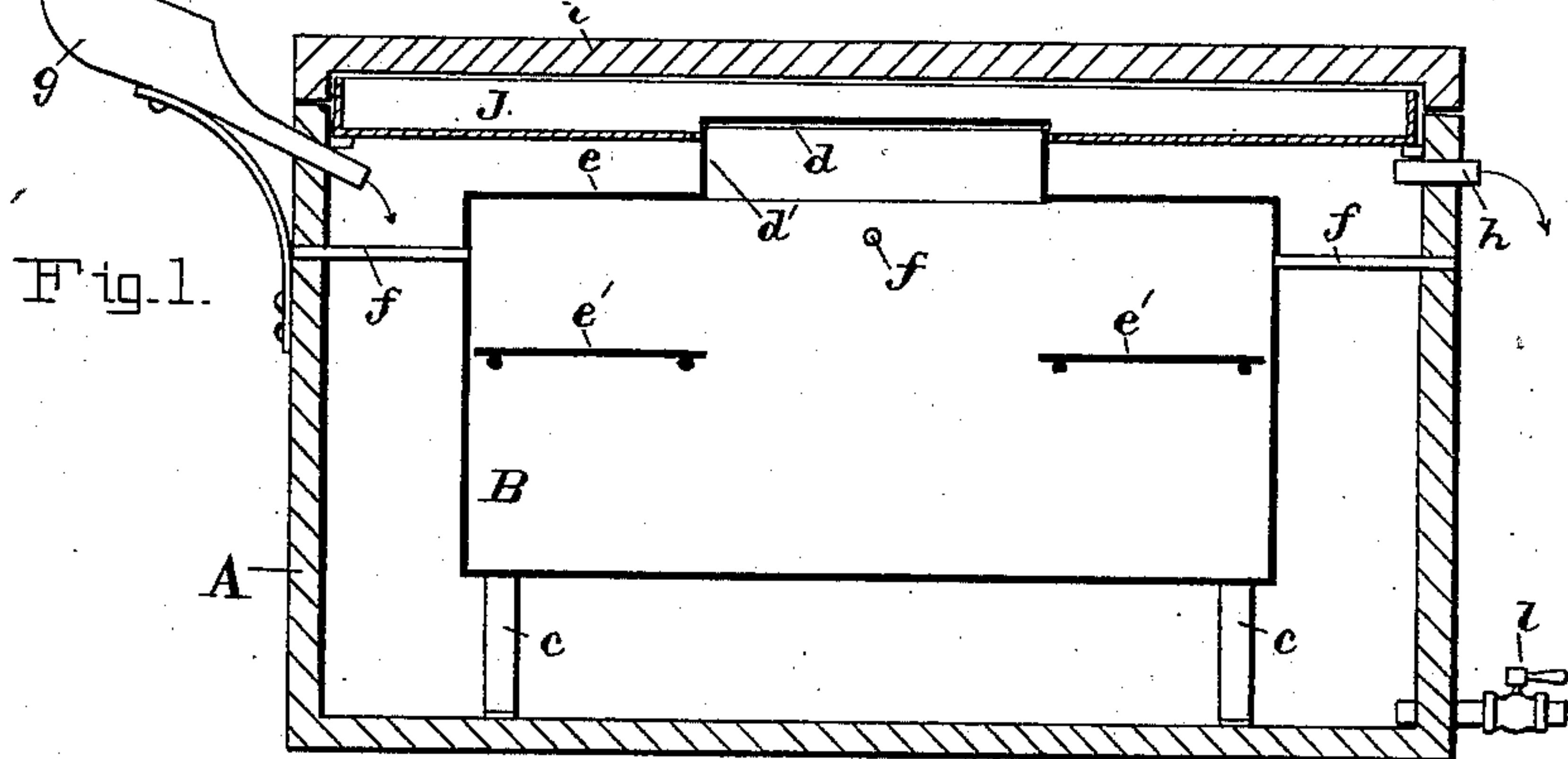


(No Model.)

J. SHRIVER.
REFRIGERATOR.

No. 347,205.

Patented Aug. 10, 1886.



WITNESSES:

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JAMES SHRIVER, OF WESTMINSTER, MARYLAND, ASSIGNOR TO CHARLES H. SHRIVER, OF DEDHAM, MASSACHUSETTS.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 347,205, dated August 10, 1886.

Application filed June 18, 1886. Serial No. 205,534. (No model.)

To all whom it may concern:

Be it known that I, JAMES SHRIVER, a citizen of the United States, residing at Westminster, in the county of Carroll and State of Maryland, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

My invention relates to an improved refrigerator for domestic purposes, the object being to provide a refrigerator or cold-chest, which shall be kept cool by a cold-water jacket surrounding it, as hereinafter set forth.

In the accompanying drawings, which illustrate the invention, Figure 1 is a vertical longitudinal section of the refrigerator. Fig. 2 is a top view of the refrigerator, the hinged cover being raised and the tray removed to show the cold-chest and pipes. Fig. 3 is a vertical cross-section of the refrigerator, taken in line *x x* of Fig. 2. Fig. 4 is a view of the tray removed from the refrigerator.

The letter A designates the water-box, which may be constructed of wood in any suitable manner. The cold-chest B should be made of metal, and sets within the water box, being supported on suitable legs, *c*. This chest has in its top an opening covered by a lid, *d*. The lid rests upon a curb, *d'*, which surrounds the opening. The walls of the curb project above the top of the chest, so that the lid *d* is on a higher plane than the chest-top *e*. The chest may have its interior provided with shelves *e'*. Air-pipes *f* have one end connected to the cold-chest, said ends opening through the walls of the chest, and the other ends of the pipes pass through the walls of the water-box and are open to the exterior air. These pipes afford ventilation to the cold-chest.

At one end of the water-box is a funnel or supply-spout, *g*, by which cold water from a pump or well or other source is entered, and at the other end is an overflow-pipe, *h*, which, when the box is full, allows the water to run

off. The water-box has a tight-fitting cover, *i*, which excludes air.

A removable tray, J, is supported in the top of the water-box above the cold-chest B. This tray has in its bottom an opening, *k*, up through which the curb *d'* projects. Thus when the tray is in position the lid *d* of the cold-chest is above the tray-bottom. The tray J is a convenient receptacle for vegetables, while the cold-chest B is adapted for meat, butter, milk, and other articles.

It will be seen that the position of the cold-chest is such that it will be submerged in the cold water, or surrounded on all sides, including the top *e*, with water. The effect of the cold water in the wood box A is to maintain a sufficiently low temperature in the metal chest B to keep meat, butter, and the like in good condition.

The air-pipes *f* pass through the water-space, and therefore are surrounded by water, whereby the air that passes inward to the chest B is cooled.

A cock or spigot, *l*, at the bottom of the water-box serves to draw off all the water and empty the box.

Having described my invention, I claim and desire to secure by Letters Patent of the United States—

A refrigerator comprising a water box, A, a cold-chest, B, supported within the water-box so as to have a water-space around it on all sides, and air-pipes *f*, passing through the water-space and connecting the interior of the cold-chest with the exterior air, for the purpose set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

JAMES SHRIVER.

Witnesses:

HUGO E. FIDDIS,
J. W. HUINZ.