

No. 855,088.

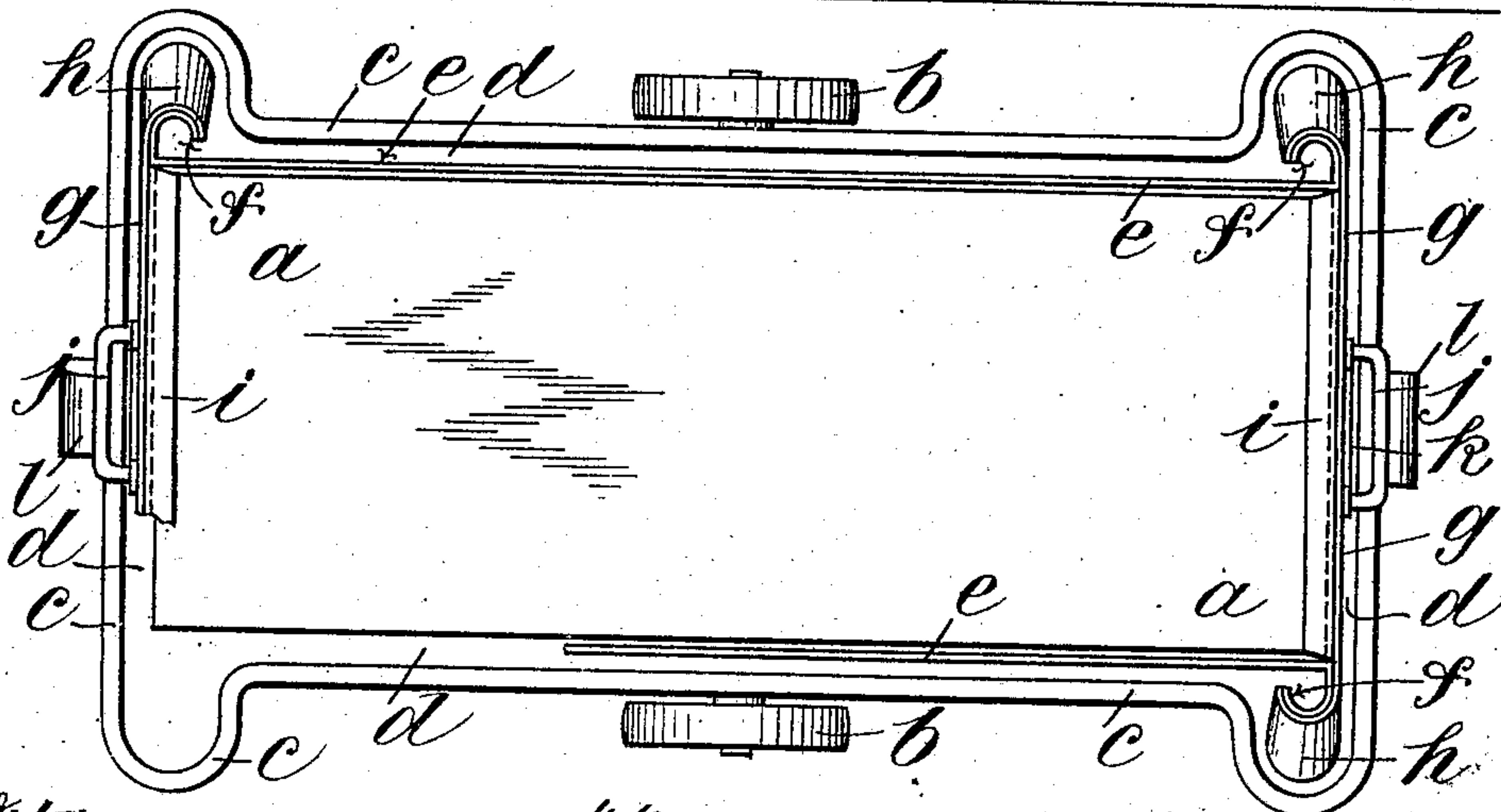
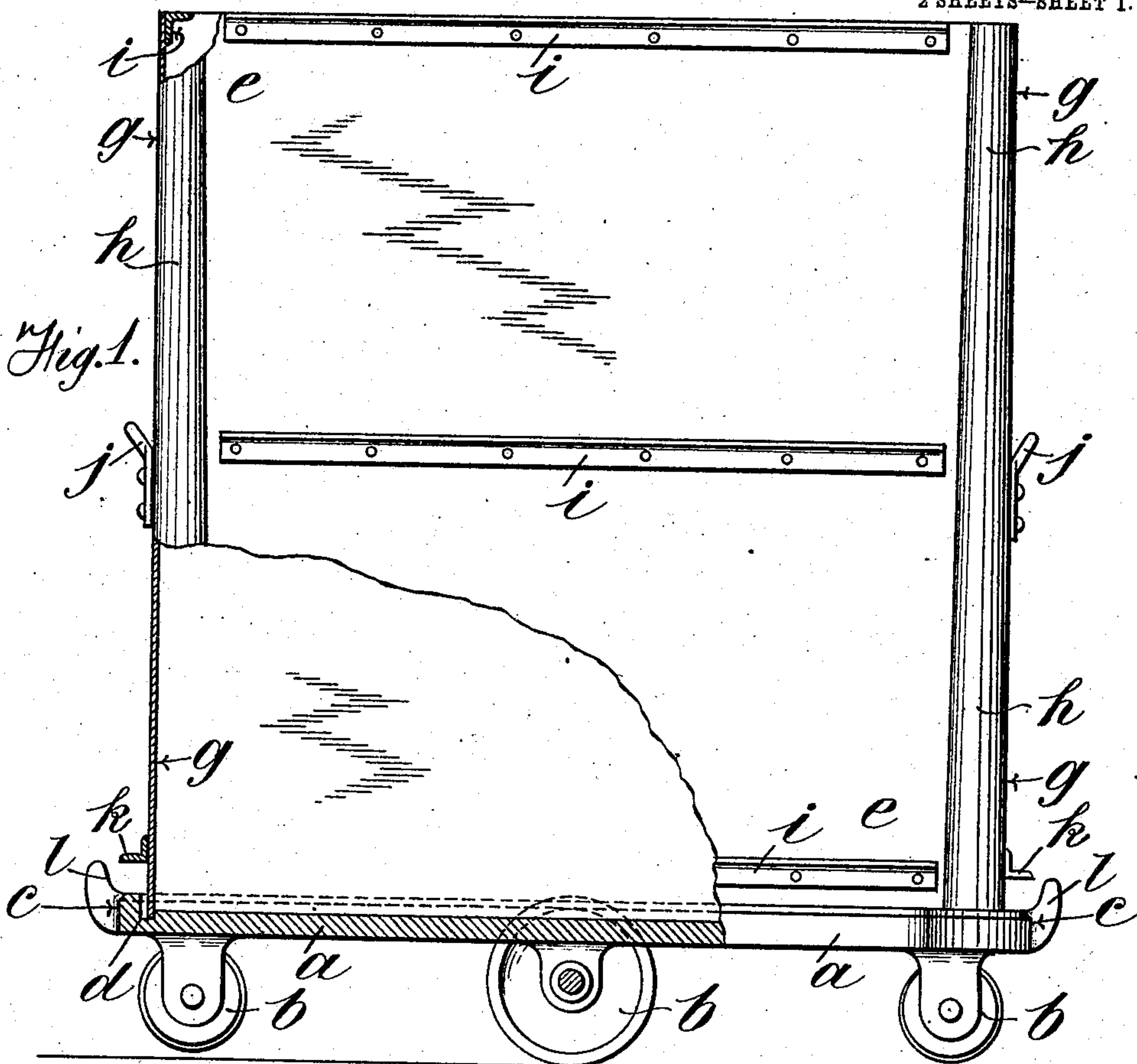
PATENTED MAY 28, 1907.

A. E. BOARDMAN.

COOLING FRAME FOR SOAP OR OTHER MATERIAL.

APPLICATION FILED DEC. 9, 1905.

2 SHEETS—SHEET 1.



Witnesses.
William M. Holcomb
Mabel Lee.

Fig. 2.

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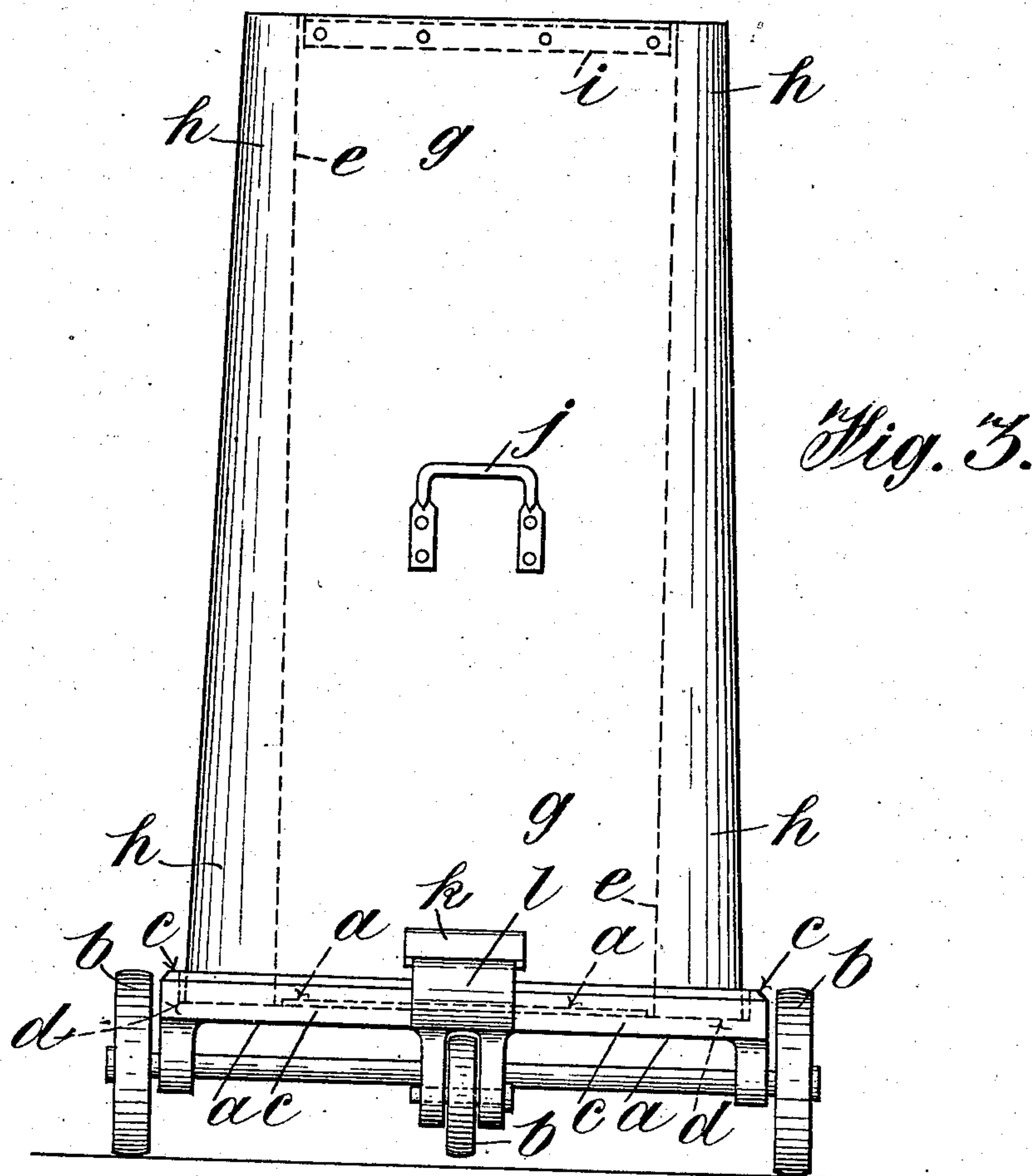
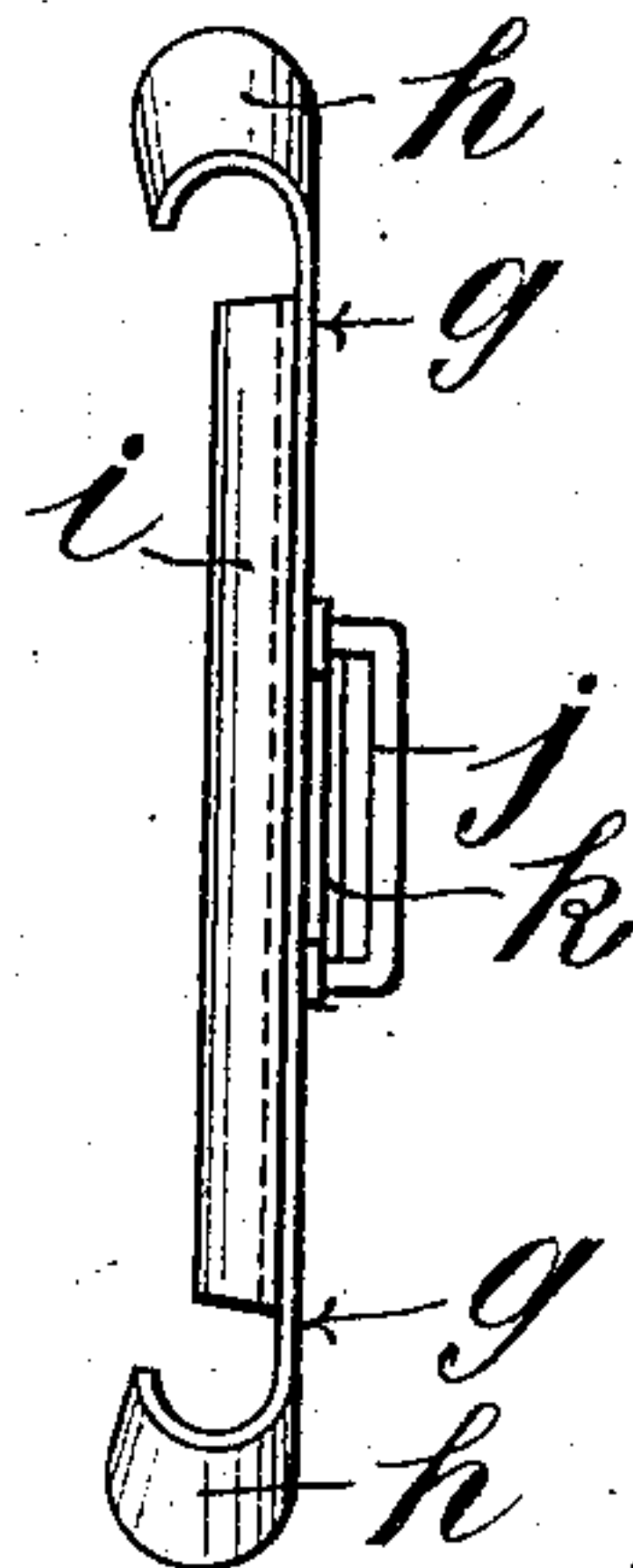


Fig. 3.



Fig. 4.



Witnesses.
William A. Colebourn
Mabel Lee.

Inventor.
A. E. Boardman
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UNITED STATES PATENT OFFICE.

ARTHUR EDWIN BOARDMAN, OF WARRINGTON, ENGLAND.

COOLING-FRAME FOR SOAP OR OTHER MATERIAL.

No. 855,088.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed December 9, 1905. Serial No. 291,045.

To all whom it may concern:

Be it known that I, ARTHUR EDWIN BOARDMAN, a subject of the King of Great Britain and Ireland, and a resident of Warrington, in the county of Lancaster, England, engineer, (and whose post-office address is 28 Salisbury street, Warrington,) have invented certain new and useful Improvements in Cooling-Frames for Soap or other Material, of which the following is a specification.

This invention relates to improvements in cooling frames for liquid or semi-liquid soap or other similar material which is required to be cooled into a block and afterward cut up into the size of pieces required.

Prior to the date of my invention soap-cooling frames have been constructed of framework, including the sides and bottom which have been secured together by bolts or like devices prior to the liquid being poured into them, the said bolts or fastening devices taking considerable time both in fastening the frame together and in removal after the cooling process has been accomplished.

The object of my invention is to avoid these defects and to provide a cooling frame which is simple in construction, cheaper to manufacture and exceedingly handy in use. My invention will be fully described with reference to the accompanying drawings in which

Figure 1 is a side elevation, partly in section, of a cooling frame constructed in accordance with my invention, Fig. 2 plan of same with part of one end and side removed to show the construction of the base, Fig. 3 end elevation and Fig. 4 details of the sides and ends showing more clearly the manner of connecting these parts.

In carrying out my invention *a* represents the base of the cooling frame provided with wheels *b* by means of which it may be run about from place to place. This base is provided with an external flange *c* projecting upwardly from it and with a groove *d* passing all round it to receive the sides and ends of the frame, *e* are the sides which may be made of sheet metal, preferably, or of any other material suitable for the purpose. These sides are bent outward in a curved or semi-circular fashion as at *f*, as will be more clearly seen from Fig. 4, the transverse section of the curve being wider at the base than at the top. *g* are the ends of the frame which are bent outward at *h* in a correspond-

ing manner to the sides but to a somewhat larger curve so that these curved ends may be placed upon and embrace the curved ends of the sides, as will be clearly seen from Fig. 2, thus forming a close joint which the pressure of the material within assists in making tighter. The sides and ends may be strengthened by angle irons *i*, plates, rods, or the like, the angle irons on the ends being preferably placed inside and near the top so that they may act to keep the top edges of the sides apart, the bottom edges of the sides and ends being kept in the required position by the groove *d*. The ends may also be provided with handles *j* and with projecting plates *k* opposite to which fulcrum pieces *l* are formed on or connected to the base *a*. The plates *k* and fulcrum pieces enable a lever to be placed under the former for the purpose of slightly lifting the ends *g* in a vertical direction. Very little movement in this direction enables the ends and sides to be readily separated after the liquid placed in the frame has become solidified. They can be as easily put together again prior to pouring in the liquid. The ends and sides may be galvanized or enameled, if required, such enameling enabling the parts to be more easily slid one upon the other and preventing them from sticking to the soap.

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

1. In a cooling frame for liquid or semi-liquid soap or other similar material the means for connecting the sides and ends consisting in turning over the joining edges of said sides and ends into curved formation, the transverse section of each curve at the bottom being larger than the transverse section of each curve at the top, said curved ends interlocking with each other substantially as described.

2. In a cooling frame for liquid or semi-liquid soap the combination with sides and ends of the frame provided with curved angles capable of interlocking with each other of the means for enabling said sides and ends to be readily separated consisting of projecting plates secured to the ends in conjunction with projections formed on the base substantially as described.

3. In a cooling frame for liquid or semi-liquid soap a suitable base, sides and end sections acting in conjunction with the base, tapered interlocking flanges forming extensions of the ends of the sides and ends.

4. In a cooling frame for liquid or semi-liquid soap, a suitable base having sides and ends, the extremities of the sides and ends being formed into tapered interlocking flanges,
5 the flanges of one section partially embracing the flanges of the other section.

5. In a cooling frame for liquid or semi-liquid soap a suitable base, sides and ends

having flanges forming tapering sockets, the said flanges being adapted to interlock. 10

In witness whereof I have hereunto set my hand in the presence of two witnesses

ARTHUR EDWIN BOARDMAN.

Witnesses:

WILLIAM HENRY TAYLOR,
AMY EVINS.