No. 817,199. PATENTED APR. 10, 1906.

S. P. STEVENSON.

DOOR FRAME.

APPLICATION FILED SEPT. 20, 1901.

FIG. 1.

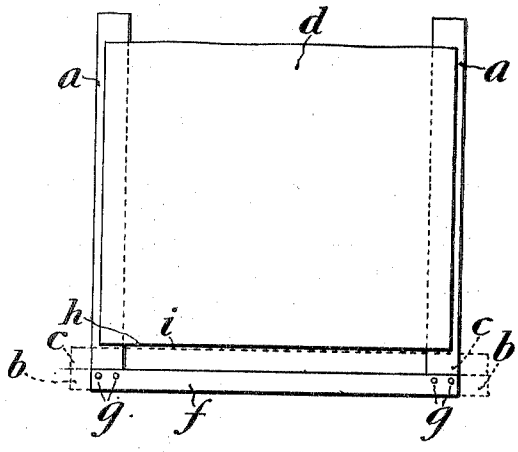


FIG. 2.

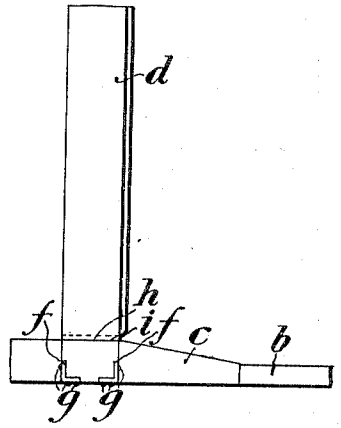


FIG. 3.

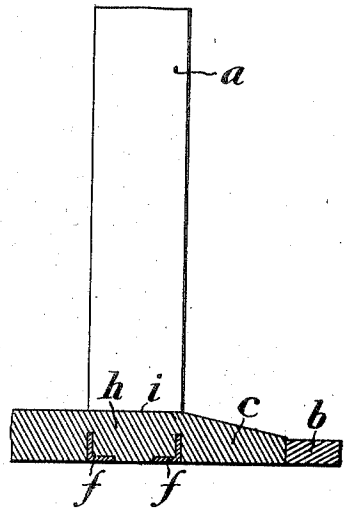
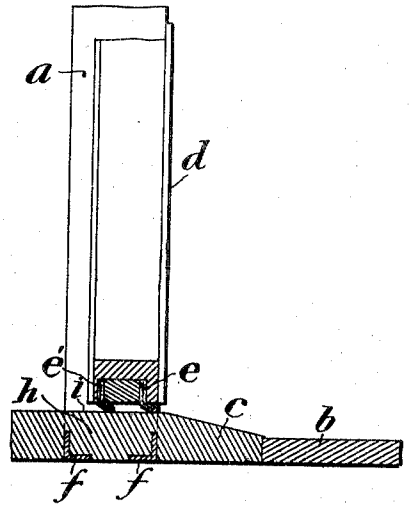


FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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DOOR-FRAME.

No. 817,199. Specification of Letters Patent. Patented April 10, 1906.

Application filed September 20, 1901. Serial No. 75,718.

To all whom it may concern:

Be it known that I, SAMUEL PRICE STEVENSON, a citizen of the United States, residing in the city of Chester, in the county of Delaware and State of Pennsylvania, have invented a new and useful Improvement in Door-Frames Adapted for Erection and Use in Buildings for Air-Tight and Refrigerating Storage, of which the following is a specification.

This invention relates to the frames for door-openings for air-tight apartments, which are made as an article of manufacture and sale and from their construction are specially adapted for use in buildings containing cold-storage chambers with concrete floors, and has for its object the firm bracing of the lower ends of the door-jambs and the providing for a substantial threshold, to be formed integrally with the concrete floor and adapted to always fit the door with air-tight closure; and to this end it consists in a door-frame having the jambs thereof connected to one another at their lower ends by one or more bars, preferably angle-irons, adapted to be embedded in and covered by a concrete floor to permit the formation of a threshold of such concrete over which wheeled vehicles may pass without injury and upon which the lower end of the door may close with a substantially air-tight joint, so that the jambs may be properly secured to one another and firmly seated in the concrete of the floor and threshold.

The construction of my invention is shown in the accompanying drawings, in which—

Figure 1 is a front view of the lower portion of a door-frame embodying this invention, with the door-sill and threshold shown in dotted lines. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical section thereof, and Fig. 4 is a vertical section of the lower portion of the door-frame and door.

Referring to the drawings, *a a* are the door-jambs; *b*, the floor; *c*, the threshold; *d*, the door; *e* and *e'*, packings attached to the lower part of the door *d*. I secure the lower ends of the jambs *a a* to each other by bracing-bars, preferably of angle-iron strips *f f*, fastened to them by screws *g*, and excavate the floor between and in front of the jambs *a a* and stand the frame with the lower ends of the jambs *a a* and the angle-irons *f f* in the excavation resting upon the bottom. I then fill in a concrete in the excavation, covering the angle-irons, and with an upper surface *h* between the jambs *a a* nearly level with the bottom of the door to form the sill *i*, and in front thereof, inclined downwardly to the level of the floor *b*, forming an inclined threshold *c*, the packings *e* and *e'* when the door is opened clear the threshold *c* and as the door closes bend and make close contact with the concrete surface between the jambs *a a*. The concrete and angle-irons hold the jambs *a a* rigidly in position as set up.

These door-frames, made and braced as described, form an article of manufacture ready for sale, erection, and use, and are an improvement upon the inventions set forth in my Letters Patent No. 697,689, dated April 15, 1902, and my application, Serial No. 69,575, filed July 24, 1901.

Having described my invention, what I claim is—

1. A new and useful article of manufacture and sale consisting of a door-frame having jambs connected at the lower ends by one or more bars adapted to be embedded in a concrete floor for the purpose of bracing said jambs to each other and securing the frame, in buildings suitable for air-tight and refrigerating storage as set forth.

2. A new and useful article of manufacture and sale consisting of a door-frame having jambs connected at the lower ends by one or more bars and a door suspended in said frame, the lower edge of said door being arranged at a substantial distance above said bar or bars whereby a free space is left below the lower edge of the door to permit the formation of a concrete threshold of substantial thickness above said bars.

S. PRICE STEVENSON.

Witnesses:
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