

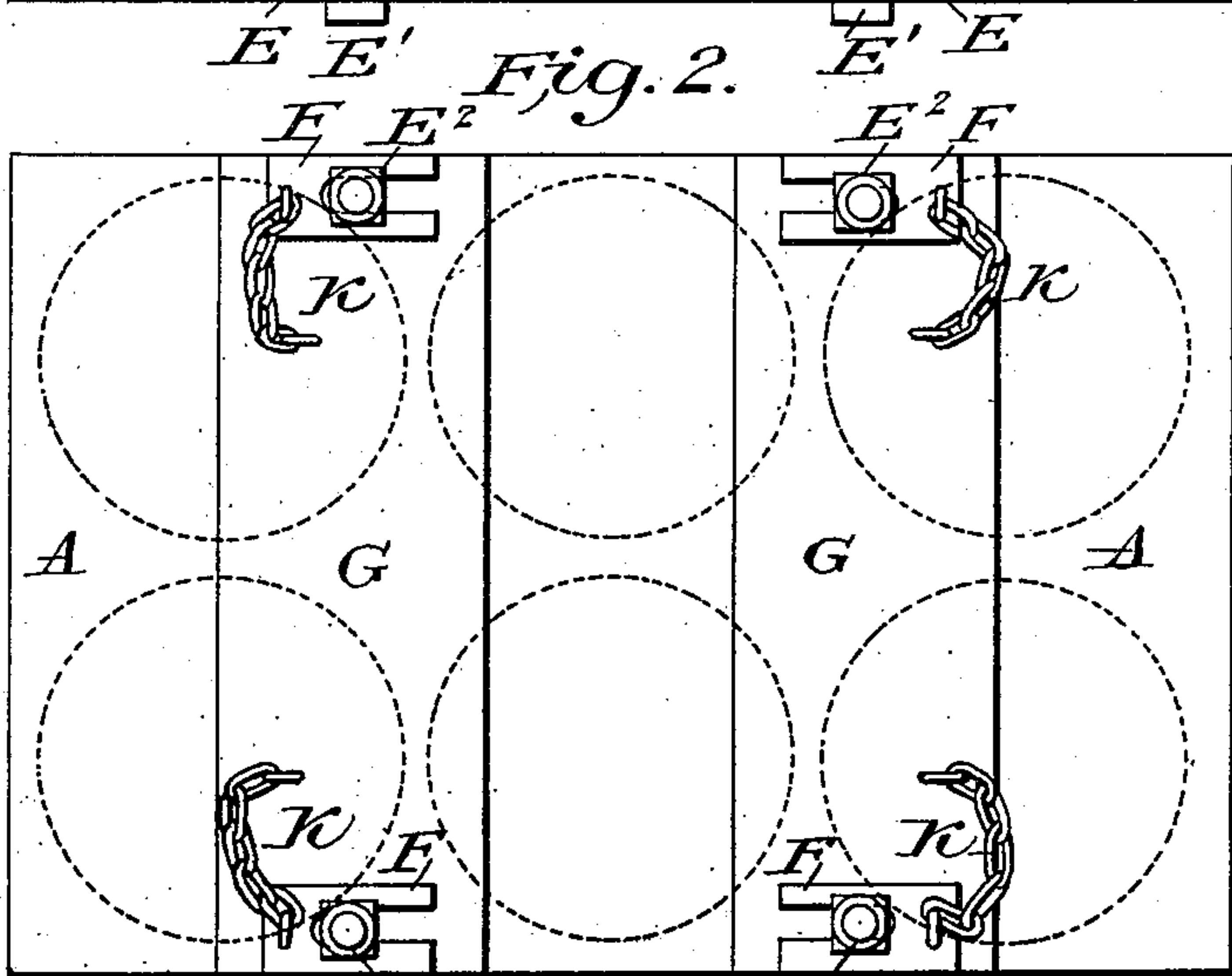
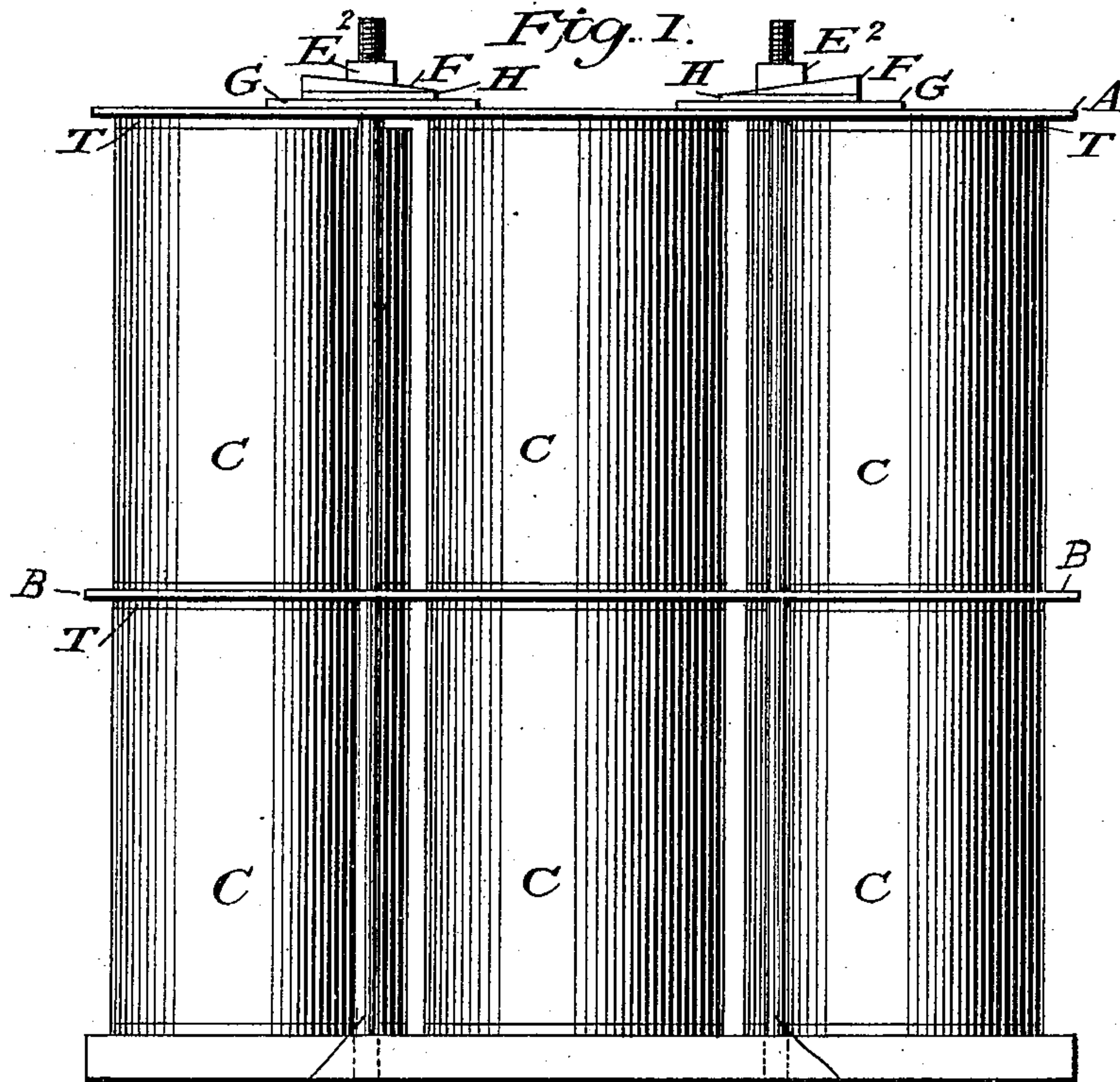
No. 666,629.

Patented Jan. 22, 1901.

W. A. ROBINSON.
CANNER'S COOKING CRATE.

(Application filed Apr. 26, 1900.)

(No Model.)



Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM A. ROBINSON, OF INDEPENDENCE, IOWA, ASSIGNOR OF THREE-EIGHTHS TO CORA F. ROBINSON, OF SAME PLACE.

CANNER'S COOKING-CRATE.

SPECIFICATION forming part of Letters Patent No. 666,629, dated January 22, 1901.

Application filed April 26, 1900. Serial No. 14,401. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. ROBINSON, a citizen of the United States of America, and a resident of Independence, Buchanan county, Iowa, have invented certain new and useful Improvements in Canners' Cooking-Crates, of which the following is a specification.

My invention relates to improvements in canners' cooking-crates; and the object of my improvement is to provide compression-plates in a crate arranged to bear upon the tops of cans contained therein, thus preventing rupture of the covers caused by internal steam-pressure while the contents of the cans are cooking and rendering practicable the use in the covers of soft or "taggers" tin. I attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the crate containing several cans and in operative position. Fig. 2 is a top plan view of the same.

Similar letters refer to similar parts throughout the several views.

D represents a tray having upturned edges. This tray is perforated at several places for the reception of the bolts E E. The bolts E E are passed upward through the perforations in the tray and through holes in the plates B and A, which correspond in relative position with the perforations in the tray D. The bolts E E are provided at one end with the heads E' E' to retain them in place and at the other ends with the nuts E² E², the latter being beveled on their under surfaces. The holes in the plates A and B, as well as those in the cross-bars G G, are made of a square form and of sufficient size to permit of said bars being lifted off the bolts E E over the nuts E² E².

The cross-bars G G are placed over the plate A, and between them and the nuts E² E² wedges F F are introduced. These wedges F F are provided with slots sufficient in width to admit the shafts of the bolts E E.

The blocks H H have slots of the same pattern as those in the wedges for the admission of the bolts, are detachable, and may be of any desired thickness.

The wedges F F may be connected to the

cross-bars G G by means of chains K K or in any other equivalent manner.

When the tray D has been filled with cans and the plate B is placed upon their tops, a second series of cans may be placed upon the plate B. The plate A is then so placed that it bears upon the tops of the upper rows of cans, the cross-bars placed over the plate, and the nuts E² E² brought down nearly to the surfaces of the cross-bars. These nuts are then turned so that their lower beveled faces are opposed to the upper faces of the wedges when the latter are introduced between them and the cross-bars. The wedges are then driven home between the nuts and cross-bars, which operation locks the parts and forms a tight connection, pressing the compression-plates A and B into close contact with the tops of the cans.

When it is desired to place cans of smaller sizes in the crate, the compression-plates A and B may be kept in operative position by introducing blocks, such as H H, between the cross-bars and wedges.

It is to be understood that my invention covers any variation in size or number of compression-plates or in the shape of the compression-plates other than the particular form shown, which may present equivalent features to conform to the style of carrying-crate used. It is well known that when the ordinary forms of cooking-crates are used, wherein the cans have their ends uncompressed, the confined steam generated within the cans during the process of cooking will rupture covers constructed of the soft or taggers tin. My form of crate, with its compression-plates confining the ends of the cans, obviates this, and the soft-tin covers are thereby kept from rupture.

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

1. The combination in a canner's cooking-crate, of the tray D, the compression-plates A and B and cross-bars G G, all provided with perforations through which are passed the bolts E, E, the bolts E, E, provided with the heads E', E', and having their other ends

threaded and provided with the beveled nuts E², E², the wedges F, F, connected to the cross-bars G G by means of the chains K, K, and the blocks H, H, all substantially as shown and described.

2. The combination in a canner's cooking-crate, of the tray D, the compression-plates A and B and the cross-bars G G all provided with perforations through which are passed the bolts E, E, the bolts E, E, provided with the heads E' E', on one end and with threads and the beveled nuts E², E², at the other end the wedges F, F, slotted to receive the shafts of the bolts E, E, and attached to the cross-bars G G by means of the chains K, K, all substantially as shown and described.

3. The combination in a canner's cooking-crate, of a tray provided with a compression-plate secured by means of bolts, and nuts and wedges having beveled faces adapted to oppose each other when the wedges are driven into place between the nuts and the surface

of the compression-plates, all substantially as shown and described.

4. The combination in a canner's cooking-crate, of a tray provided with compression-plates, said plates being secured and compressed by means of bolts provided with nuts having beveled faces adapted to oppose and engage with the beveled faces of wedges when the wedges are interposed between said nuts and the surfaces of blocks resting upon the upper surfaces of cross-bars placed over the compression-plates, cross-bars adapted to equalize the pressure on the compression-plates, and slotted blocks, all substantially as shown and described.

Signed by me at Independence, Iowa, this 21st day of April, 1900.

WILLIAM A. ROBINSON.

Witnesses:

LOUIS C. SOENER.

LEWIS E. ADAMS.