

(No Model.)

H. J. ALLEN.
SODA FOUNTAIN COOLER.

No. 598,551.

Patented Feb. 8, 1898.

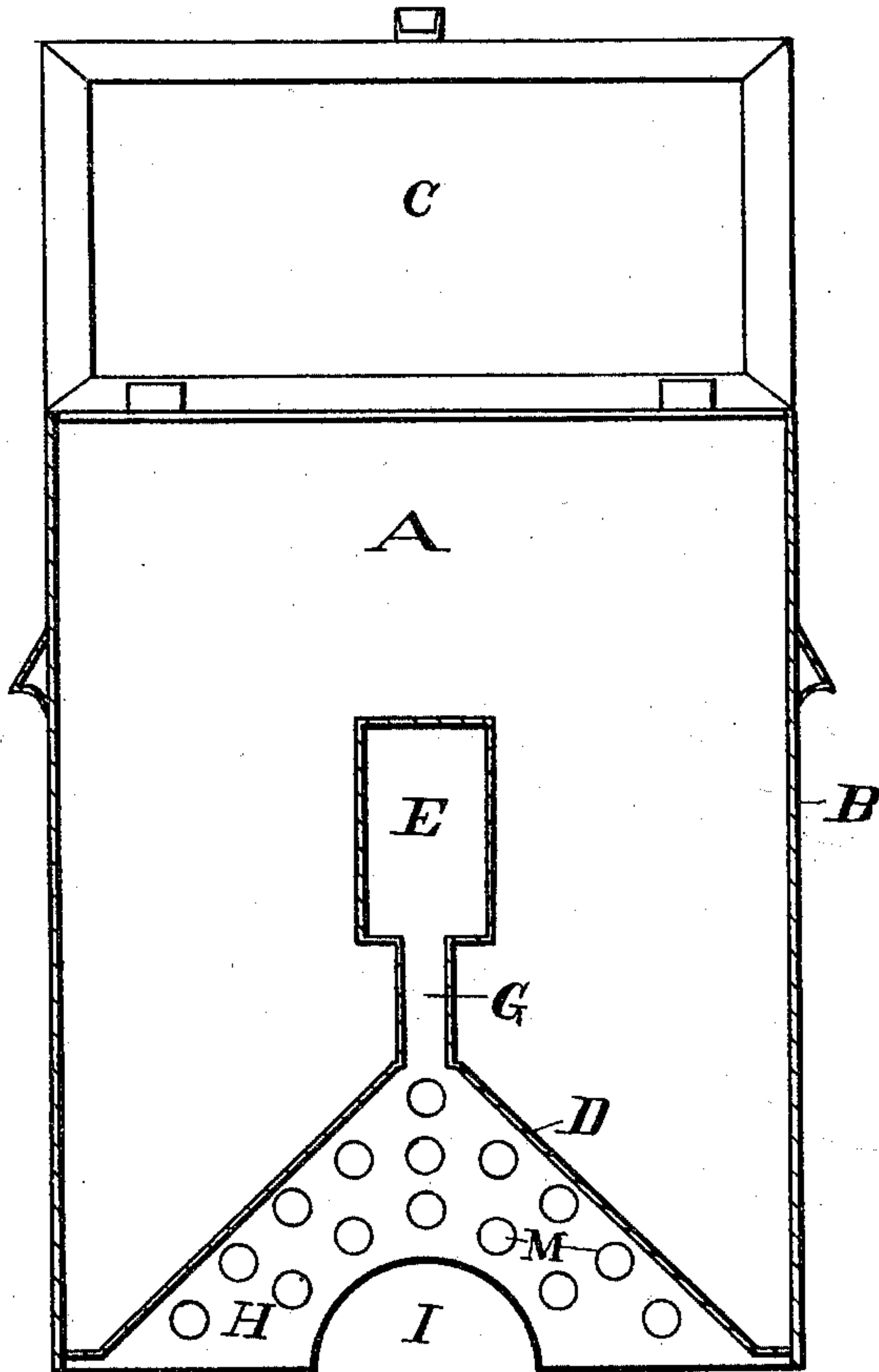


Fig. 1

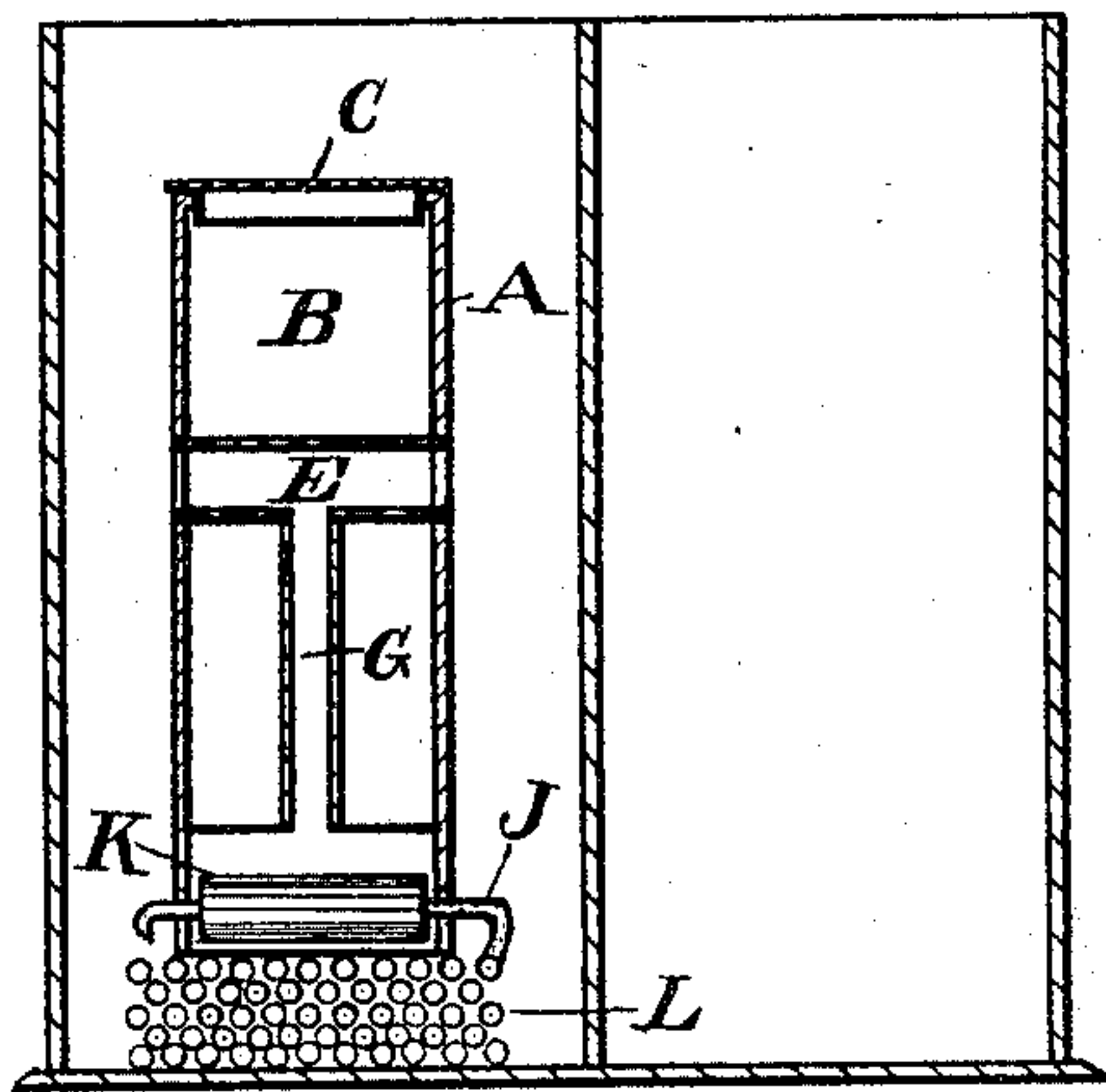


Fig. 2.

WITNESSES:

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SODA-FOUNTAIN COOLER.

SPECIFICATION forming part of Letters Patent No. 598,551, dated February 8, 1898.

Application filed June 23, 1897. Serial No. 641,917. (No model.)

To all whom it may concern:

Be it known that I, HERBERT J. ALLEN, a citizen of the United States, residing at Deering, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Soda-Fountain Coolers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in coolers for soda-fountains and similar devices.

It is designed to obviate the necessity for placing a large quantity of ice loosely in the cooling, compartment of the soda-fountain, which I accomplish by substituting therefor a small tank or receptacle containing a suitable cooling mixture. It consists in the novel construction and arrangement of said tank or receptacle, as hereinafter described and set forth.

In the drawings herewith accompanying and making a part of this application, Figure 1 is a longitudinal vertical sectional view of my improved device; and Fig. 2 is a transverse vertical sectional view of the same, showing it in position in the soda-fountain.

Same letters of reference refer to like parts.

In said drawings, A represents the side walls of a suitable tank, B the end walls, and C the cover. The bottom of the tank is raised at the center and inclines downwardly toward either end wall, as seen at D in Fig. 1. Passing horizontally through the tank from side to side at a point somewhat above the apex of the bottom is a horizontal air passage or tube E, and extending from and opening into said passage E is a vertical air-passage G. Neither of said passages communicate with the interior of the tank. The bottom forms a V-shaped recess H on the under side of the tank, and the sides at points adjacent to said V-shaped recess may be cut away, as seen at I, Fig. 1, in order that the said walls may extend down around the pipes J, which lead to and out of the soda-cooling reservoir K, so that when in position, as seen in Fig. 2, the bottom of the tank extends down on either side of the reservoir and the vertical passage is directly over said reservoir.

In operation the cooling mixture is placed in the tank covering the bottom and surrounding the air-passages. The tank is then set in the bottom of the reservoir on the coils of pipe L, covering the bottom. The bottom of the tank resting on the pipe, the V-shaped portion will be directly over and project down around the reservoir. The air coming warm from the outside passes into the horizontal passage, and thence through the vertical passage, and being cooled therein falls directly upon and around the reservoir and upon the pipes in the bottom of the tank, thus keeping the soda in the reservoir always cool. Perforations M in the side walls within the limits formed by the V-shaped bottom facilitate the passing of the air warmed by contact with the reservoir outwardly, and thus assist in creating a continuous cold current, the warm air from the fountain passing into the horizontal passage, thence down through the vertical passage, where it is cooled by contact with the interior walls of said passage, the exterior walls of which are exposed to the cooling mixture, and thence passing out through the perforations in the side walls and under the bottom of the tank. The perforations also allow the outward passage of the air when the water which usually surrounds the pipes in the bottom of the fountain extends above the base of the tank and would otherwise cause a sealing of the bottom of the tank and thus prevent any circulation of the air.

Having thus described my invention and its use, I claim—

1. A cooler for soda-fountains consisting of a suitable tank to contain the cooling mixture having a V-shaped bottom extending downwardly from the center to the end walls, a horizontal passage leading from side to side and a vertical passage communicating with said horizontal passage and extending downwardly, a portion of the side walls included between the inclined parts of the bottom being removed, substantially as and for the purposes set forth.

2. A cooler for soda-fountains consisting of a suitable tank to contain the cooling mixture and air-passages extending through but not opening into said tank, the bottom of the tank being raised at the center and a portion

of the side walls lying between said included parts of the bottom being removed, substantially as and for the purposes set forth.

5 3. A cooler for soda-fountains consisting of a suitable tank to contain the cooling mixture and air-passages extending through but not opening into said tank, the bottom of said tank being raised at the center and the side walls lying between said included sections of

the bottom being perforated, substantially as 10 and for the purposes set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 17th day of June, 1897.

HERBERT J. ALLEN.

Witnesses:

ELGIN C. VERRILL,
WALTER T. CAMP.