Jan. 24, 1933. J. H. GRANDE 1,895,319

METHOD OF PACKING ICED VEGETABLES

Filed Feb. 21, 1928

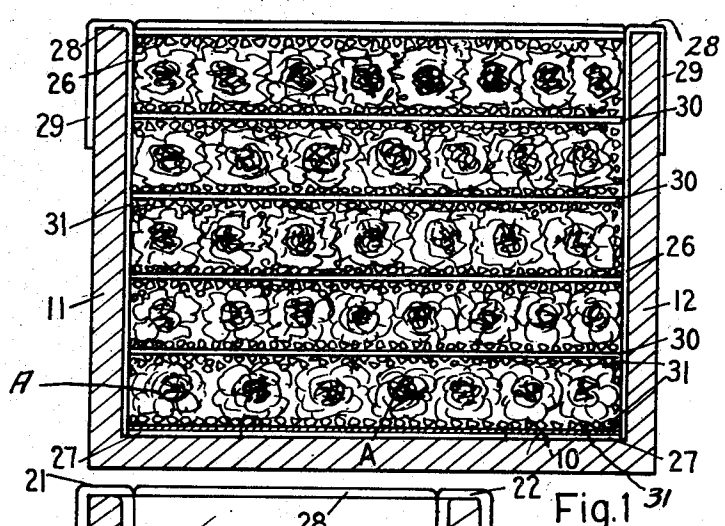


Fig. 1

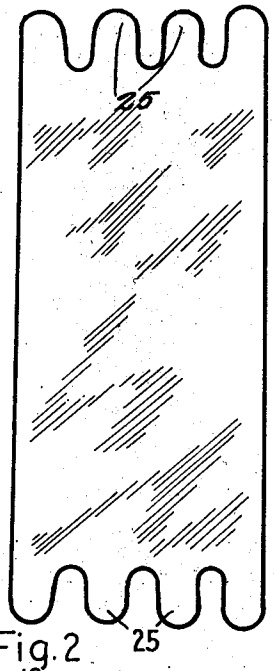


Fig. 2

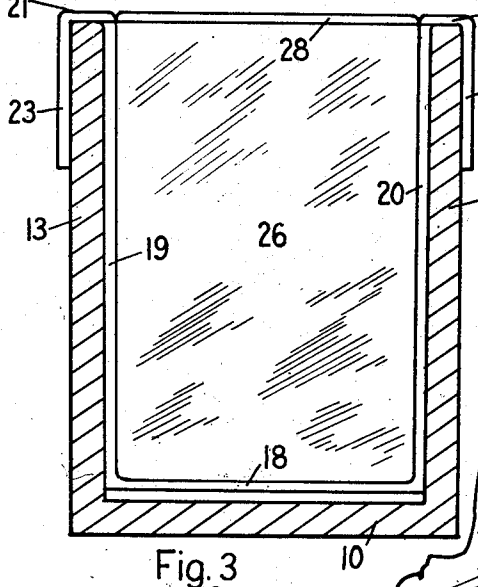


Fig. 3

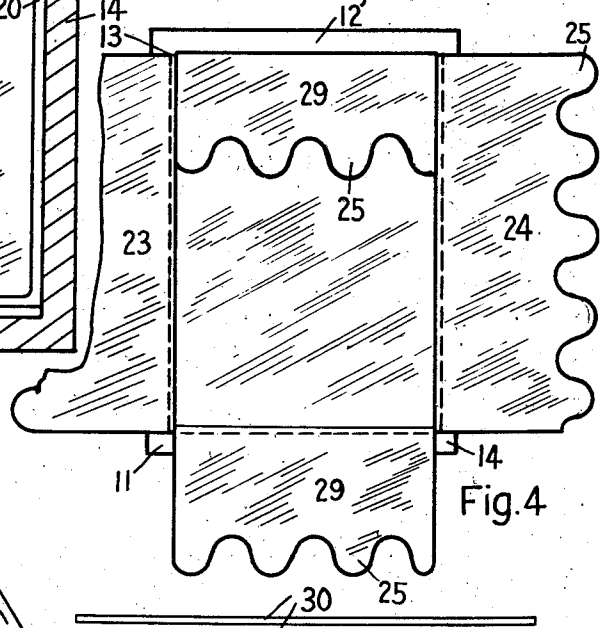


Fig. 4

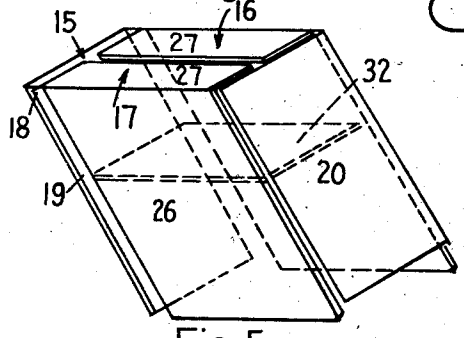


Fig. 5

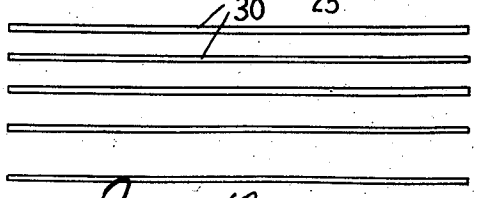


Fig. 6

Joseph H. Grande
INVENTOR

Patented Jan. 24, 1933 1,895,319

UNITED STATES PATENT OFFICE

JOSEPH H. GRANDE, OF LOS ANGELES, CALIFORNIA

METHOD OF PACKING ICED VEGETABLES

Application filed February 21, 1928. Serial No. 256,030.

This invention relates to improvements in packing vegetables such as cabbage, lettuce, celery, cauliflower, and similar vegetables and has for its object to provide a simple, efficient and inexpensive method of packing said vegetables for shipment over long routes in an iced condition.

One of the objects of this invention is to provide a good texture of moisture proof and moisture resisting wrapping paper of the consistency of cardboard to assure sufficient stiffness to properly separate the vegetables in tiers and at the same time to allow for folding the sheets of paper without cracking.

Another object of this invention is to provide moisture proof wrapping sheets of paper with scalloped fringes for the purpose of impressing a trademark on the scallops simulating a picture, say of lettuce.

A still further object of this invention is to provide for insulating successive rows of vegetables contained in a shipping crate by means of ice layers, and for uniformly distributing the refrigeration afforded by the ice over every effective point in the packing area of the crate or case.

And it is another object of my invention to provide for the preservation of fresh vegetables for long distance haulage in refrigerator crates characterized by the feature that the vegetables, say lettuce will be kept iced at all times and will also be kept in true horizontal tiers due to the interposition between successive rows of ice of moisture proof partition sheets.

A still further object of this invention is to permit of the rapid and effective packing of such vegetables such as lettuce, consistent with a minimum degree of leakage of the ice water emanating from the crushed or cracked ice, whilst at the same time allowing the ice water to seap thru the crate. The wrapping paper employed is made to overlie all walls of the crate interiorly thereof and will withstand a maximum amount of cold conductivity.

With the above and other objects in view my invention consists in the combination, arrangement and details of construction disclosed in the drawing and specifications and then more particularly pointed out in the appended claims.

In the drawing, wherein similar reference characters designate similar parts throughout the respective views,

Figure 1 is a vertical sectional elevation of my invention,

Figure 2 is a plan view of a packing sheet employed,

Figure 3 is a sectional view in elevation of my invention taken at right angles to Figure 1,

Figure 4 is a plan view of a shipping crate showing various parts of the packing sheets in folded relation,

Figure 5 is a perspective view of the packing sheets in assembled relation ready for introduction progressively in a case, and

Figure 6 is a side view of the partitions employed in the shipping crate.

In the drawing which is merely illustrative of my invention a shipping box case or crate is shown composed of end walls 11 and 12, bottom 10, side walls 13 and 14, being of ordinary construction. 15 designates a lining made of card board of desired texture and treated so as to be liquid proof.

Two of these sheets are employed to overlap the side walls of the box or crate in which the lettuce or similar vegetables are designed to be packed; and two similar sheets are designed to overlap the remaining walls of the crate in the manner now to be described.

It is proposed to entirely cover all walls and bottom of the crate with moisture proof cardboard paper; thus one sheet will be folded so that its middle portion 18 will overlap the ends 16 and 17 formed upon two other sheets, which ends 16 and 17 overlie the bottom 10 of the crate, while their side portions 26 and 20 extend upwardly so as to overlie the end walls of this crate, having their terminals 28 fold around the upper edges of the said walls, and extend down as at 29 along the external sides of the mentioned walls. This having been done the next step is to take a third and somewhat longer sheet and fold it so as to provide the lateral portions 19 and 20 and a bottom portion 18

(Figure 3); the bottom portion will be caused to overlie the crate bottom engaging ends designated broadly 27 and specifically 16 and 17 of the other two sheets already mentioned. The side or lateral portions 19 and 20 of the third sheet will overlap the end walls of the crate and their upper portions 21, and 22 respectively fold around the upper edges of these walls, so that their terminals extend down over the exterior faces of the crates as at 23 and 24 respectively.

The lettuce or other vegetables may now be packed in the following manner. A layer of cracked ice 31 will overlie the bottom portions of the mentioned sheets; thereupon the lettuce A will be placed in rows upon the layer of ice; another layer of cracked ice will overlie the lettuce; over this last layer is placed a moisture proof partition sheet 30; upon this partition sheet is placed another layer of cracked ice, thereupon lettuce will be piled in rows, then another layer of ice, then another partition and so on until all the lettuce that can be packed in the crate has been taken care of, and a partition placed upon the uppermost layer of lettuce; the partitions serve to prevent the brine from reaching the lettuce at inaccessible points and assure films of brine at vertically spaced apart points.

The next step is to fold back the terminals 29 of some sheets to overlie the uppermost partition, as shown in Figure 4; then the longitudinal terminals 23, 24 will be folded upon the other folds; the crate may then be closed and made ready for shipment. The sheets may have their marginal edges scalloped as at 25 producing a series of tabs, the purpose of which is to allow a picture of lettuce more or less rounded in contour to be printed in these scallops or tabs as a trademark of the things to be packed. I do not limit myself to the exact details of construction disclosed herein but cover all variations falling within purview of appended claim.

What I desire to claim and seek protection on is:—

The method of packing iced vegetables and the like which consists folding a cardboard lining impervious to moisture upon the bottom and opposing walls of a crate, taking two additional linings lapping them respectively under the first lining, causing them to overlie the other sides of the crate and project foldably over the top edges of the last named sides, then preparing a layer of chopped ice upon the bottom overlying portion of the first lining, thereafter placing in rows so as to rest upon the ice layer lettuce or the like, then placing a moisture-proof partition upon another layer of cracked ice resting upon the lettuce, and again proceeding as hereinbefore set forth until the folded portions of the other linings are brought back to overlie the uppermost partition, and ultimately closing said crate.

In witness whereof he has hereunder set his hand and affixed his seal this 24 day of January, 1928.

JOSEPH H. GRANDE.