

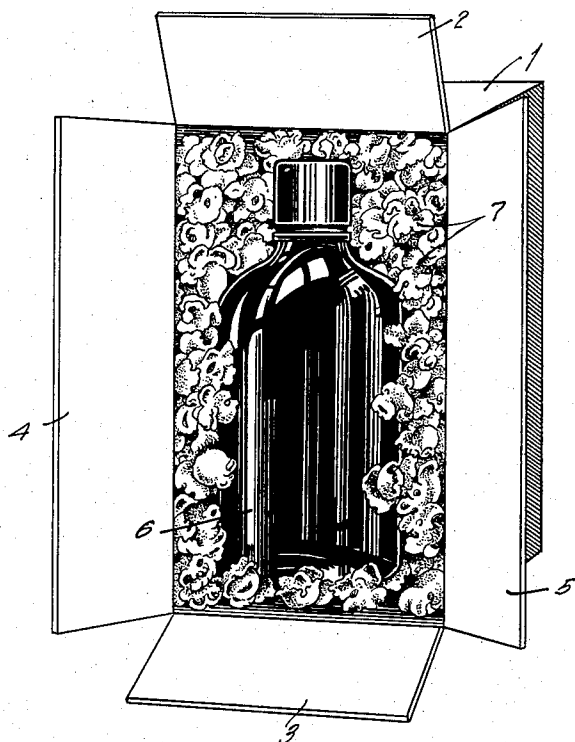
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FRAGILE ARTICLE PACKAGED IN POPPED CORN

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FRAGILE ARTICLE PACKAGED IN
POPPED CORN

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3 Claims. (Cl. 206-46)

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My invention relates to packages and particu-
larly, but not exclusively, to packages containing
frangible articles. Articles, such as drugs and
medicines, are ordinarily contained in glass bot-
tles and, in preparing them for shipment, they
are enclosed in a larger container with shredded
paper, excelsior or straw padding packed around
them to provide a shock absorbing cushion.

Shredded paper which is largely used, is baled
under great pressure and considerable time is
consumed in pulling the paper apart when the
bale is opened. Excelsior and straw padding
come in rather bulky masses and must be packed
carefully around the articles. Furthermore, be-
cause of fire hazards, such materials must be
stored in metal or other fireproof containers.

The principal object of my invention is to
provide a package containing a frangible article
which is packed in an outer container and in
which the cushioning or packing material sur-
rounding the frangible article is an extremely
light, resilient material which is cheap, in com-
paratively small pieces so that it may, in many
instances, be merely poured into the outer con-
tainer around the frangible article, and which
is fire resistant.

The drawing is a perspective view of my package
before it is sealed.

Referring to the drawing—

1 is the outside container which may be of
fiber, paperboard, wood, metal or any other suit-
able material. As illustrated, the container is
formed of paperboard having the flaps 2 and 3
which are first infolded and the flaps 4 and 5
which are afterwards overfolded the flaps 2 and 3
and sealed. 6 is the frangible article, here illus-
trated as a glass bottle which is centrally posi-
tioned in the outer container 1 in spaced relation
to the inner walls thereof. Surrounding the
bottle 6 is a mass of popped corn 7 which I find
is practically an ideal cushioning material.

A cubic foot of corn, when popped, expands to
a volume of approximately 20 cubic feet and yet
the weight thereof is less than the corn in its
original form because of the loss of moisture
content of the kernel in the popping process. The
initial cost of the corn and the cost of popping
it amounts to less than the cost of good shredded
paper. The popped corn is extremely resilient.
It is clean, dust free, and does not tend to cling
to glass bottles, paper boxes, etc., which are
packed therein. Furthermore, while excelsior,
shredded paper and straw become strewn over
the floor when the package is opened to remove
the contents, the popped corn merely falls back
into the outside container as the bottles or boxes
are removed.

Because of its light weight and large bulk con-
siderable savings can be effected not only in

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transportation charges but in the size of the
outside containers. Shipments which are now
moved by Railway Express because of their value
or fragility may be sent by parcel post at a
great saving and, the gross weight of shipments
by air is substantially reduced.

In a recent test shipment of a gallon bottle of
liquid packed in popped corn a savings of fifty-
eight cents in transportation charges over the
cost of shipping the same packed in shredded
paper was effected.

An eight ounce bottle packed in three ounces of
popped corn, and a one gallon bottle packed in
one pound of popped corn, using double faced
corrugated shipping cartons were dropped from
a height of ten feet to a concrete floor without
damaging the bottles.

Ordinarily, the popped corn alone would be
used as the packing material but if desired, it
may be mixed with small quantities of other
materials.

What I claim is:

1. A package, comprising an outer container,
and a frangible article within said outer container
substantially surrounded by popped corn in firmly
packed condition and holding said article in
spaced relation to the inner walls of said con-
tainer.

2. A package containing a frangible article,
such as a bottle, and comprising an outer con-
tainer, and a light weight, yielding, and absorb-
ent material, comprising principally popped corn,
closely packed around said article and holding
the same in spaced relation to the inner walls
of said container.

3. A package comprising a frangible container;
an outer container enclosing said frangible con-
tainer; and a mass of firmly packed popped corn
entirely surrounding said frangible container
within said outer container and maintaining it
in spaced relation to the inner walls of said outer
container.

ALBERT R. RAUSCH.

References Cited in the file of this patent
UNITED STATES PATENTS

Number	Name	Date
197,433	Walter	Nov. 20, 1877
466,688	Johnson	Jan. 5, 1892
1,683,843	Nelson	Sept. 11, 1928

FOREIGN PATENTS

Number	Country	Date
607,042	France	Mar. 22, 1926

OTHER REFERENCES

"Vermiculite Cushioning"—article in Modern
Packaging—pp. 80-81, June 1951.