

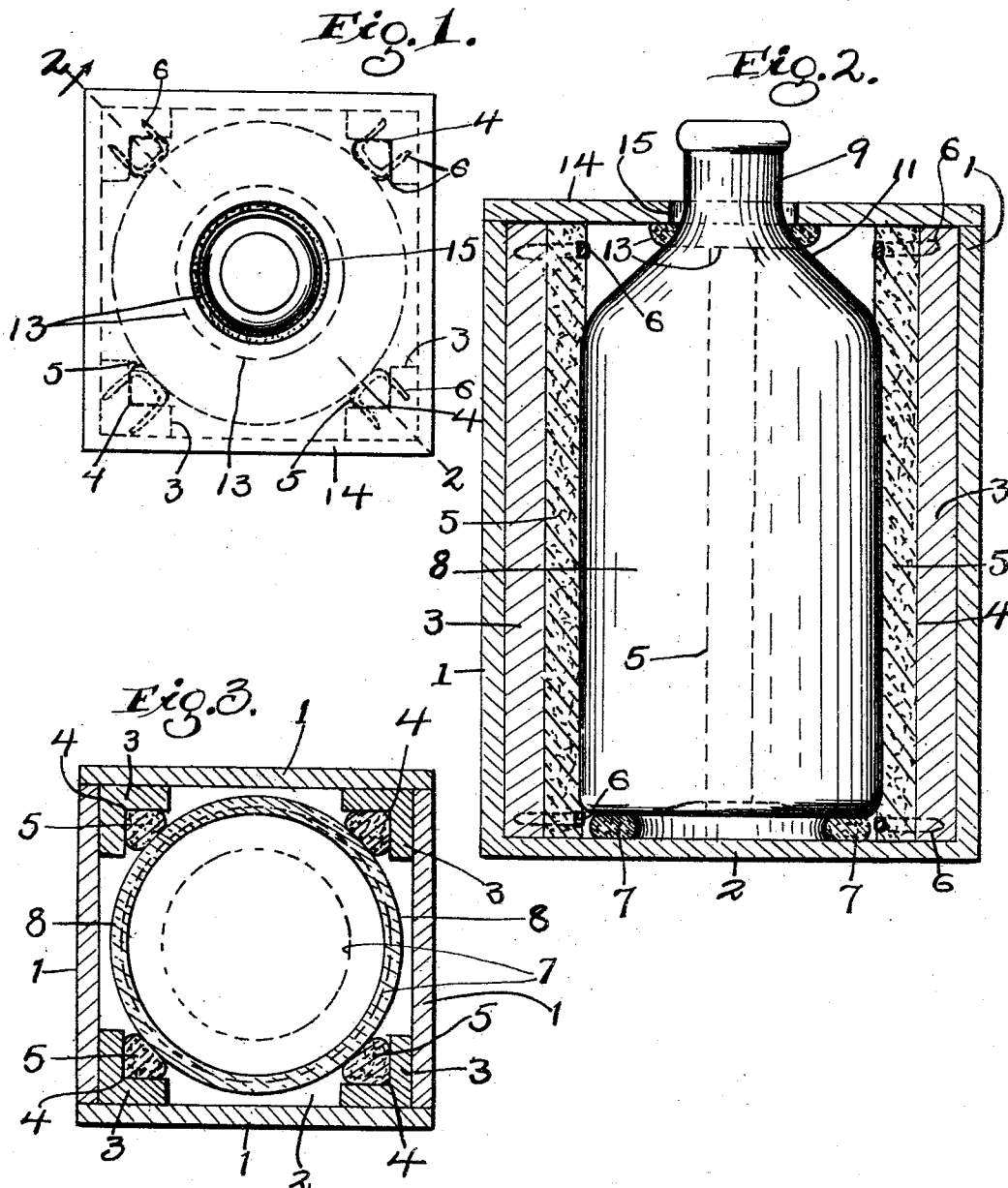
A. J. MILLER.

CARBOY.

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939,286.

Patented Nov. 9, 1909.



WITNESSES:
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CARBOY.

939,286.

Specification of Letters Patent.

Patented Nov. 9, 1909.

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To all whom it may concern:

Be it known that I, ACHILLES J. MILLER, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Carboys; and I 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 pertains to make and use the same.

This invention relates to improvements in packing cases for fragile receptacles and especially to the kind generally known as carboys.

The object of this invention is to provide a carboy which can be cheaply constructed, which will provide ample protection against breakage and which will occupy the minimum amount of space in proportion to its capacity.

With this object in view and to the end of realizing other advantages, which will hereinafter appear, my invention consists in the features of construction and combination of parts as described in the specification, pointed out in the claims and illustrated in the accompanying drawings.

In the accompanying drawings Figure 1 is a top plan of a carboy embodying my invention. Fig. 2 is a section on line 2—2, Fig. 1. Fig. 3 is a section on line 3—3, Fig. 2.

Again referring to the drawings 1 represents the side pieces and 2 represents the bottom of the outer case of the carboy. The side pieces and bottom are preferably made of wood and secured together in any suitable manner so as to secure the proper strength for the case. The inner corners of the case are strengthened and reinforced by means of wooden cleats or corner pieces 3 which extend from the top to the bottom of the case. In each of the cleats or corner pieces 3 is formed a vertical groove 4 which is preferably V-shaped in cross section. In each of the grooves 4 is secured a quantity of non-inflammable packing material 5, preferably asbestos. The asbestos is formed into a compact and firm rope which is practically circular in cross section. A length of the asbestos rope is pressed into each V-shaped groove 4 and about half the circumference thereof projects beyond the groove. The rope is held in the grooves in any suitable manner, preferably, by means of small

staples 6. In the bottom of the casing is arranged a circular mat 7 of asbestos rope, the outer or largest diameter of the mat being somewhat smaller than the diameter of the bottle which is to be placed in the case.

The preferred form of bottle comprises a cylindrical body portion 8 and a neck portion 9 which merges into the body portion in a smooth swelling curve forming a strong shoulder portion 11. The bottle is made of sufficient height so that the shoulders thereof will be in line with the top of the side pieces of the case. A collar 13 of asbestos rope is slipped over the neck of the bottle and rests in the shoulders thereof. The top of the case is formed of a piece of board 14 of the same size as the bottom of the casing, in which is formed a central opening of sufficient size to permit the neck of the bottle to pass therethrough. When the top of the casing is placed in position it will press down on the ring 13 and hold the bottle securely in the casing.

With the carboys at present on the market there is a great loss through breakage owing to the inefficiency of the packing and there is also always danger of the packing being set on fire through the spilling or overflowing of the contents of the bottle. With my construction I am able to provide not only a very satisfactory packing, owing to its durability and elasticity, but also one which cannot be injured by the action of the fluid carried in the bottle, in case the contents escape therefrom. Also with my construction a cheaper form of bottle can be used and one which will occupy less space in proportion to its capacity than the bottles now used. A given number of my carboys will occupy less space than the same number of the style of carboys now in use and therefore a considerable saving can be secured when shipping carload lots.

What I claim is:—

1. In a carboy, the combination of a casing angular in cross section, corner pieces arranged in the inner corners of said case, said corner pieces being provided with V-shaped grooves, a length of asbestos rope arranged in each groove of said corner pieces, an asbestos mat arranged in the bottom of said case, a bottle arranged in said case on top of said mat and in contact with the asbestos rope, an asbestos collar arranged on said bottle and a cover secured to said case so as to press on said asbestos collar,

substantially as described and for the purpose set forth.

2. In a carboy, the combination of a casing angular in cross section, corner pieces
5 arranged in the inner corners of said case, said corner pieces being provided with longitudinally extending grooves on the inner
faces thereof, a length of asbestos rope arranged in the groove in each corner piece,
10 and a bottle arranged in said case and hav-

ing its sides in engagement with the rope in said grooves, substantially as described.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

ACHILLES J. MILLER.

Witnesses:

DANIEL E. DALY,
ALBIN J. MILLER.