

D. C. AND R. C. DUNCAN,
COZY FOR PORTABLE GAS GENERATORS.
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1,395,485.

Patented Nov. 1, 1921.

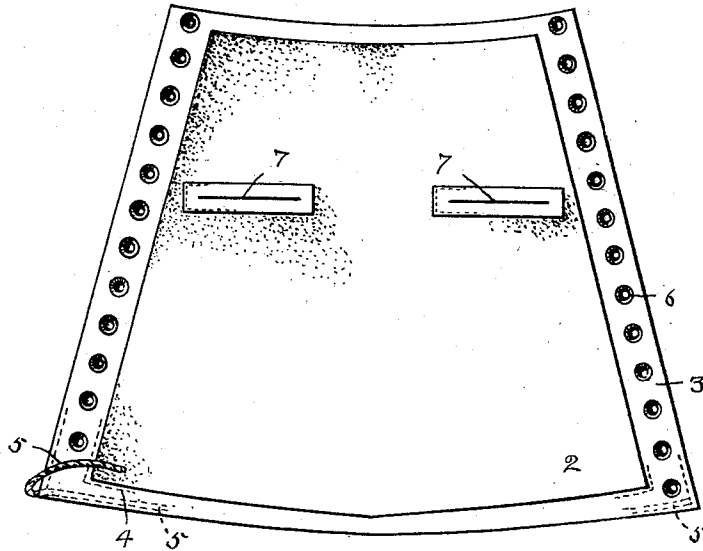


Fig. 1.

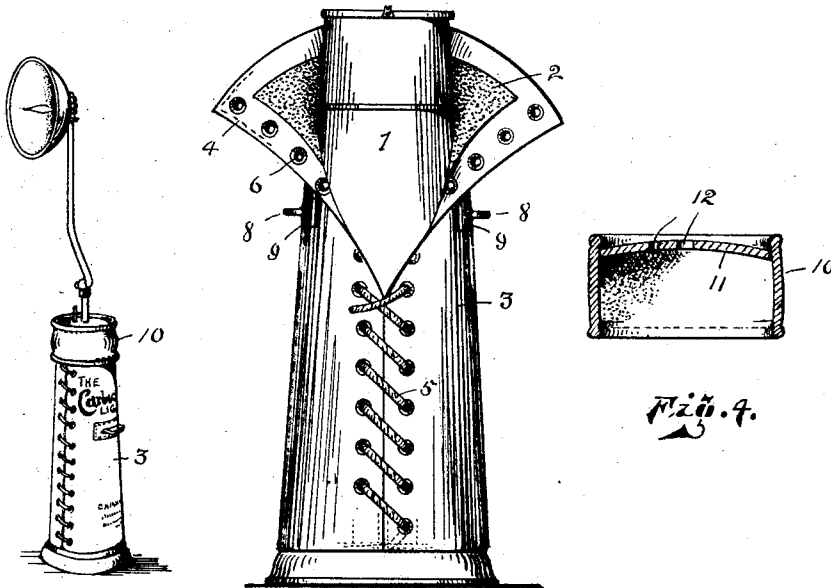


Fig. 2.

Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

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COZY FOR PORTABLE GAS-GENERATORS.

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Specification of Letters Patent.

Patented Nov. 1, 1921.

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To all whom it may concern:

Be it known that we, DAVID C. DUNCAN and RUSSELL C. DUNCAN, citizens of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Cozies for Portable Gas-Generators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to portable gas generators and has special reference to portable acetylene gas generating receptacles in which the generating tank is of an elongated tapering cylindrical form which normally stands upright and is transported from place to place manually by suitable laterally extending rigid handles.

The principal object of the invention is to provide a practical and efficient, quickly adjusted, insulating blanket or cozy for such tanks, the express purpose being to prevent freezing of the liquid within the tank.

Other objects and special adaptabilities of the invention will appear in the further description thereof.

In all except severe sub-zero weather, the heat from the generation of gas in this form of tank has proven sufficient to keep the water from freezing while the light is in operation, but in very severe weather the use of salt or calcium chlorid is often employed.

The use, however, of a cozy or insulating blanket as illustrated and described herein, obviates the necessity of using any anti-freezing compounds or materials and permits the use of acetylene gas lights in any kind of weather, regardless of how severe and without trouble or inconvenience.

Referring to the accompanying drawings forming part of this application and in which like reference characters indicate like parts:

Figure 1 is a flat plan view or lay-out of the body-portion of the cozy.

Fig. 2 is an elevation of an acetylene gas generating tank with the complete cozy applied thereto.

Fig. 3 is an enlarged elevation of a light tank or receptacle with the body portion of the cozy partly applied thereto, and

Fig. 4 is a vertical central sectional view through the cap portion of the cozy.

1 represents the metal generating tank which contains the water and carbid common to portable acetylene gas generators

and in which it is desired to retain the heat generated therein sufficient to prevent the water freezing during extreme cold weather.

The body portion of the cozy comprises a single piece 2 of thick flexible insulating material such as hair felt or the like of the proper size and shape to snugly fit about the side walls of the tank 1, and a tightly woven canvas cover 3, such as double filled canvas ducking or the like, fitted upon one side of the felt 2 and overlapping same about all four of its edges where it is tightly stitched therethrough as at 4, forming a strongly protected hem wholly about the edges of the cozy.

About the lower end edge of the cozy and within the hem is incorporated a lace or cord 5, the free end of which is for lacing the cozy tightly about the receptacle, there being suitable staggered eyelets 6 therefor formed in both side edges of the cozy the entire length thereof.

Within the cozy and upon the opposite sides thereof are formed slits 7—7 positioned so as to properly register with the handles 8 of the receptacle when the cozy is applied thereto.

These slits are reinforced upon the outside of the cozy by rectangularly shaped strips 9, preferably of leather; they wholly surrounding the slits and being securely stitched entirely through the materials of which the cozy is composed.

The cap 10 of the cozy is formed of the same material as the body portion having a depressed slightly convex upper end portion 11 through which suitable holes 12 are formed for the accommodation of the upwardly extending pipes of the light. This cap is of sufficient depth to extend well down over the upper end of the body portion of the cozy forming a complete snugly fitting warm covering for the entire tank.

It is to be understood that various modifications, within the scope of the invention, may be resorted to without departing from the spirit thereof.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent, is:

The combination with a gas generator requiring intermittent access through the upper end thereof and having gas pipe connections through said upper end, of a two piece cozy, one of which pieces is removably attached to the body portion of the generator

leaving the lower end or base of the generator bare, and the other piece of a shape to act as a cap for covering the upper end of the generator and acting as a closure for
5 the upper end of the other piece, said cap overlapping the upper end of said other piece, and said cap being removable with the upper end of the generator.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses. 10

DAVID C. DUNCAN.
RUSSELL C. DUNCAN.

Witnesses:

D. DANIELSON,
PRESTON FISHER.