

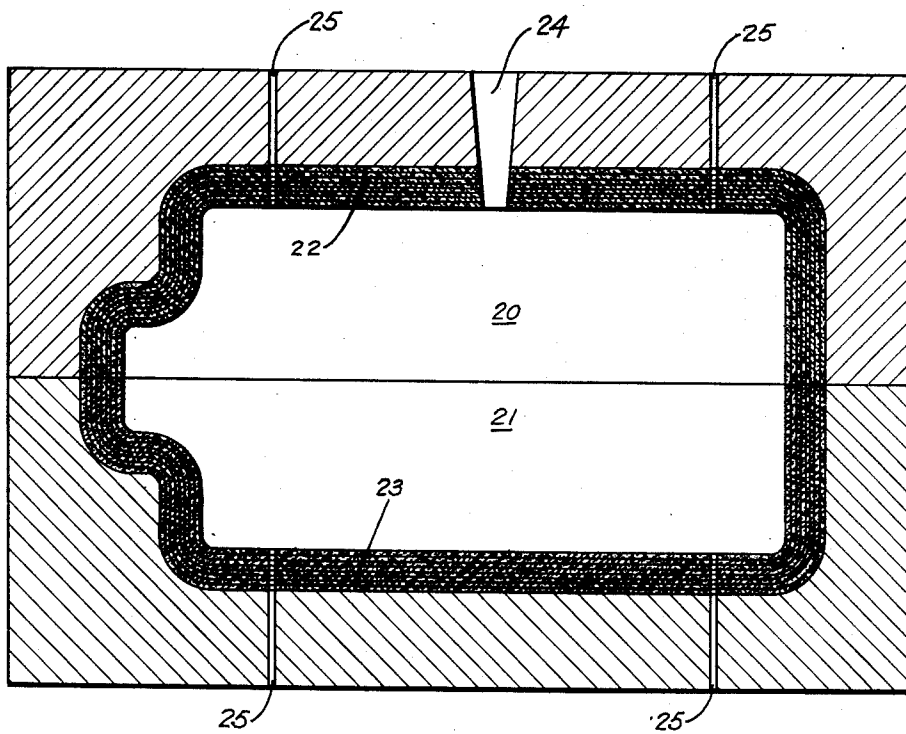
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G. W. ELSEY

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CORE BOX

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Inventor

George W. Elsey

By

Spencer, Hardman & Felt
Attorney

UNITED STATES PATENT OFFICE

GEORGE W. ELSEY, OF DAYTON, OHIO, ASSIGNOR TO DELCO PRODUCTS CORPORATION,
OF DAYTON, OHIO, A CORPORATION OF DELAWARE

CORE BOX

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This invention relates to improvements in core-boxes.

It is among the objects of the present invention to provide a core box adapted to be filled with sand or the like by directing into said box an air stream laden with the filling material, the core box having provisions for substantially reducing the erosive effect of such sand laden air upon the interior walls of the core-box.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawing wherein a preferred embodiment of one form of the present invention is clearly shown.

Referring to the drawing, the core box is shown comprising two portions 20 and 21 having interior recesses presenting walls 22 and 23 respectively. An opening 24 is provided in the one member for receiving the nozzle of a machine (not shown) which is adapted to force sand laden air under pressure into the core box. A plurality of comparatively smaller openings 25 are provided in portions 20 and 21 of the core box, said openings forming exit passages for the air, substantially most of the sand being retained within the core box.

Where sand laden air is forced under pressure into a metal core box, the sand will have an erosive effect and quickly wear away the interior of the core-box, rendering it useless. The present invention provides a lining within the core box which is of a resilient character so that it will move when struck directly by the sand laden blast. The resiliency of the lining tends to reduce erosion substantially so that a core box lined with such material will not wear away as fast as will a plain, metallic core-box. The tendency of the resilient lining to return to normal shape or position after being flexed by the sand blast will maintain substantially the form of the interior.

Fabrics such as are used in the manufacture of vehicle tires provide a satisfactory lining material, inasmuch as tires are prone to withstand the grinding effect of a gravel or sand road for a comparatively longer time

than do metallic tires, which do not have the resiliency of the fabric material.

The lining material may be laid into the metal core box, or it may be pressed therein, being vulcanized or secured to the inner walls of the core box in any other suitable manner.

The invention provides for the relining of core boxes, wearing away of the lining material not necessitating the provision of new core boxes but simply the relining thereof.

While the form of embodiment of the present invention as herein disclosed, constitutes a preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow.

What is claimed is as follows:

1. A core-box interiorly lined with an elastic, wear resisting material and having a single opening for the introduction of sand and a plurality of smaller openings for the egress of air.

2. A core-box interiorly lined with a rubberized fibrous material and having a single opening for the introduction of sand and a plurality of smaller openings for the egress of air.

3. A core-box having a particular interior contour, interiorly lined with a resilient, wear resisting material comprising strata of rubberized cords so as to retain the contour of the core-box, said core-box having openings for the introduction of sand and the egress of air.

4. A core-box having a rubberized fabric lining vulcanized to its inner walls so as to retain the inner contour of said core box, said core-box having an opening for the introduction of sand and smaller openings for the egress of air.

In testimony whereof I hereto affix my signature.

GEORGE W. ELSEY.