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H. WEIDA & E. K. HARDY.

CHEMICAL RECEPTACLE.

APPLICATION FILED APR. 30, 1906.

Fig. 1.

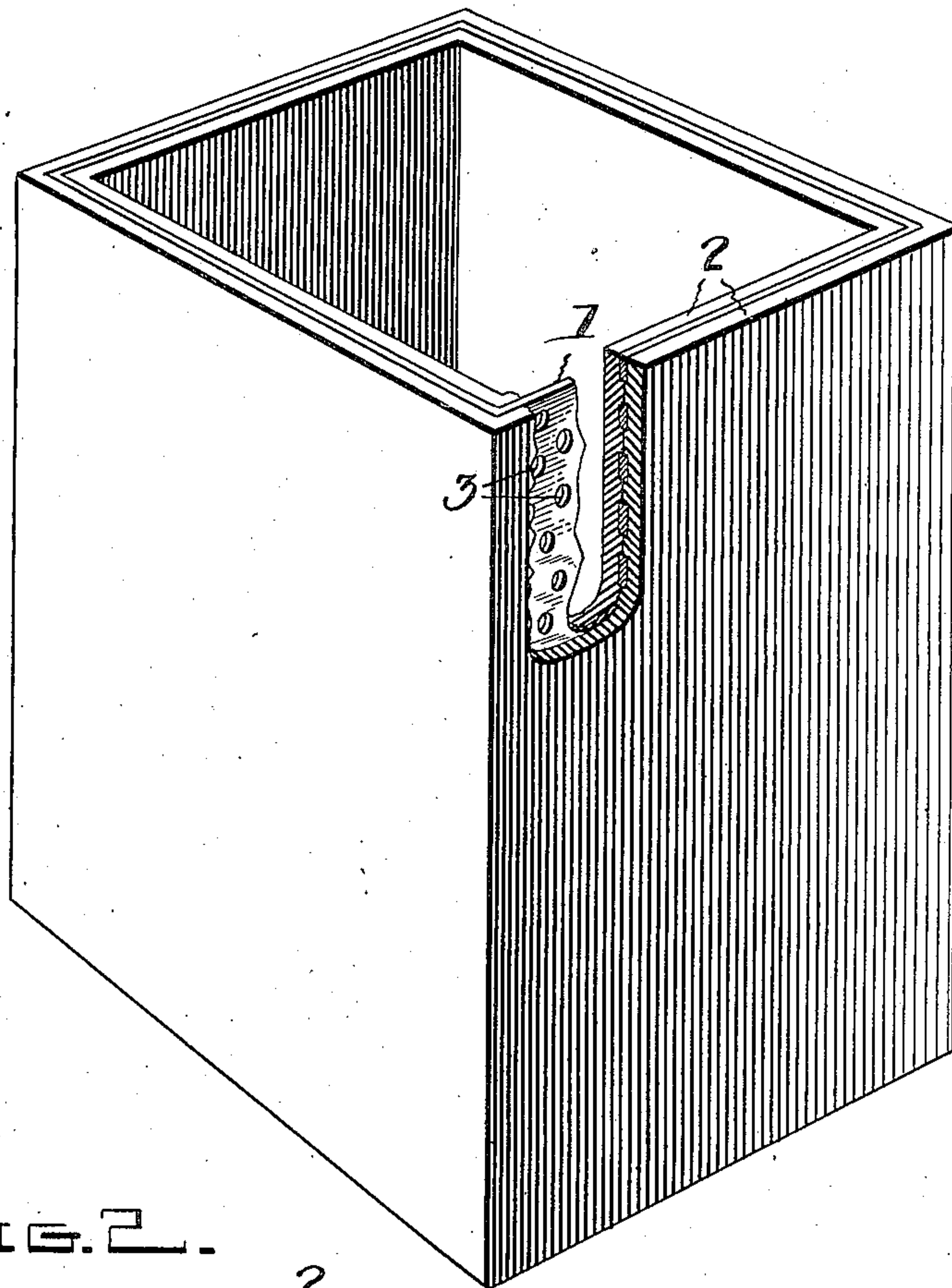
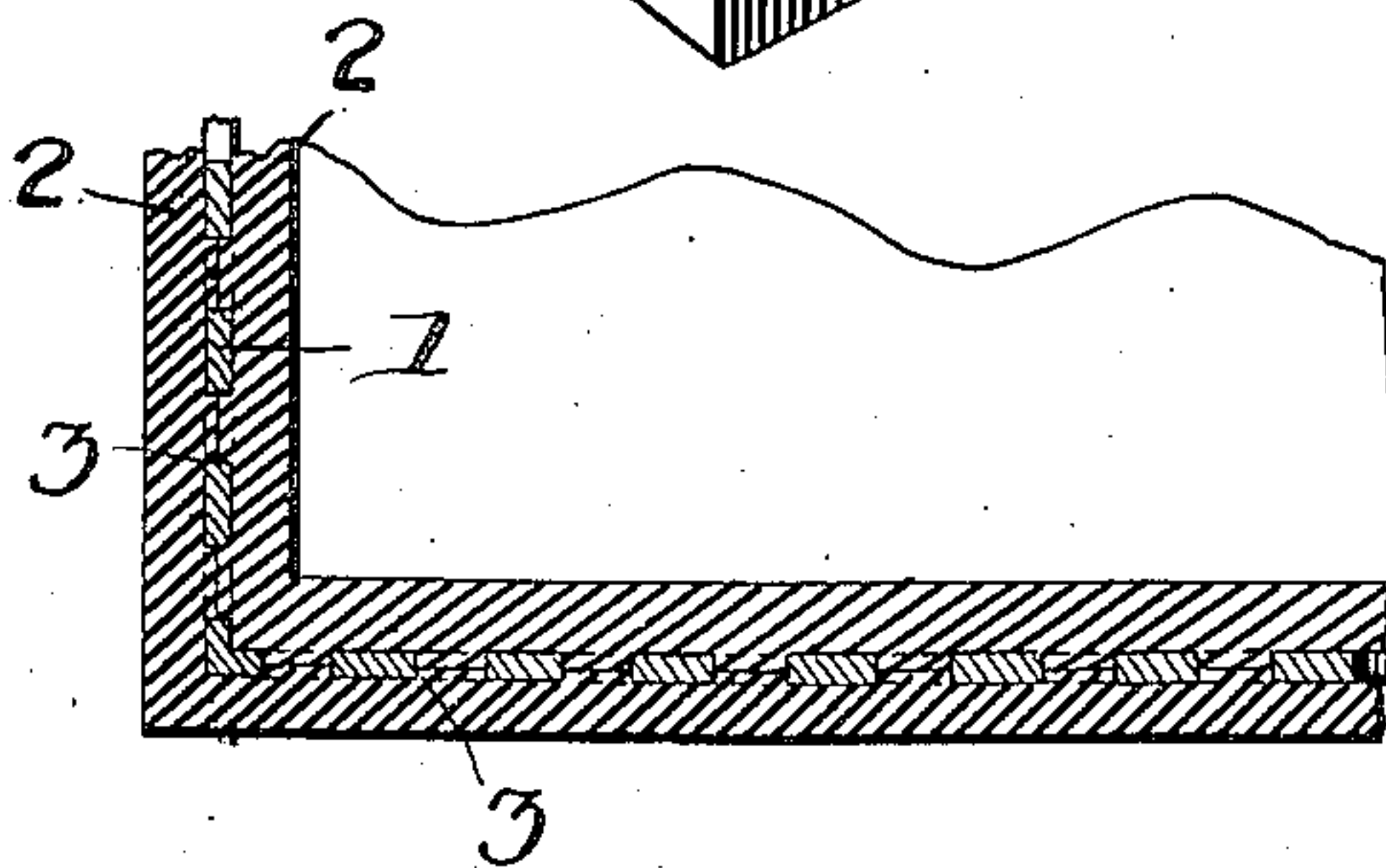


Fig. 2.



Witnesses

James A. Koehl.
Kenneth P. Clarke.

Inventors

Harry Weida and
Edward K. Hardy.

By Parsons & Burch and
James O. Sevens.

Attorneys.

UNITED STATES PATENT OFFICE.

HARRY WEIDA AND EDWARD K. HARDY, OF AKRON, OHIO.

CHEMICAL-RECEPTACLE.

No. 844,070.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed April 30, 1906. Serial No. 314,558.

To all whom it may concern:

Be it known that we, HARRY WEIDA and EDWARD K. HARDY, citizens of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Chemical-Receptacles, of which the following is a specification.

This invention relates to improvements in chemical-receptacles; and the object is to provide a battery-cell or other vessel for holding chemicals which is stronger and less liable to crack or break in use than the ordinary hard-rubber receptacle now in general use.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a battery-cell or acid-receptacle, one of the walls being broken away to show the formation thereof; and Fig. 2, an enlarged sectional detail view showing the formation of the composite walls.

Our improved chemical - receptacle is formed of composite material consisting of a sheet of perforated metal 1, upon each side of which a layer or sheet 2 of hard-rubber compound is placed, the whole being subjected to pressure, which forces the rubber compound into the perforations 3 of the metal sheet, and then vulcanized. A battery-cell or other receptacle formed of this composite material is less liable to crack or

break, because its walls are more yielding than if formed of hard rubber alone. At the same time the receptacle will withstand the action of the chemicals and climatic changes to the same extent as the ordinary hard-rubber cell now in general use, or to a greater extent.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

1. A chemical-receptacle having its walls formed of a sheet of perforated metal and a layer of hard rubber, the latter being forced into the perforations of the former.

2. A chemical-receptacle having its walls formed of a sheet of perforated metal, and a layer of hard rubber, the latter being forced into the perforations of the former before vulcanization.

3. A chemical-receptacle having its walls formed of a sheet of perforated metal and an interior and exterior layer of hard-rubber compound forced into the perforations of the metal and the whole vulcanized.

4. A composite material formed of two layers of hard-rubber compound and an intermediate sheet of perforated metal, the layers of hard-rubber compound being forced into the perforations of the latter before vulcanization.

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

HARRY WEIDA.

EDWARD K. HARDY.

Witnesses:

D. GALEHOUSE,
O. S. HART.