

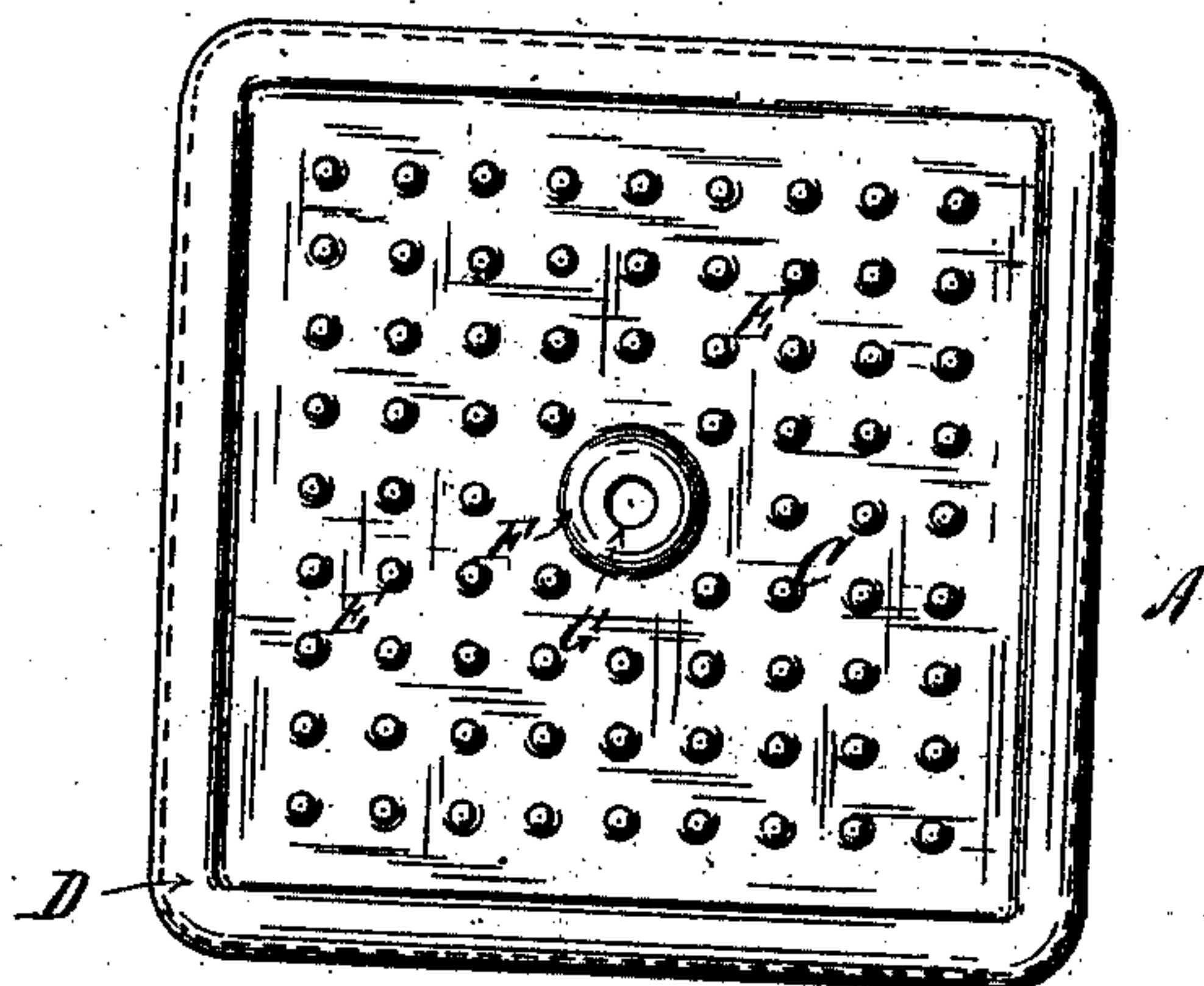
(No Model.)

E. W. M. HUGHES.  
STEAM CHEST COVER CASING.

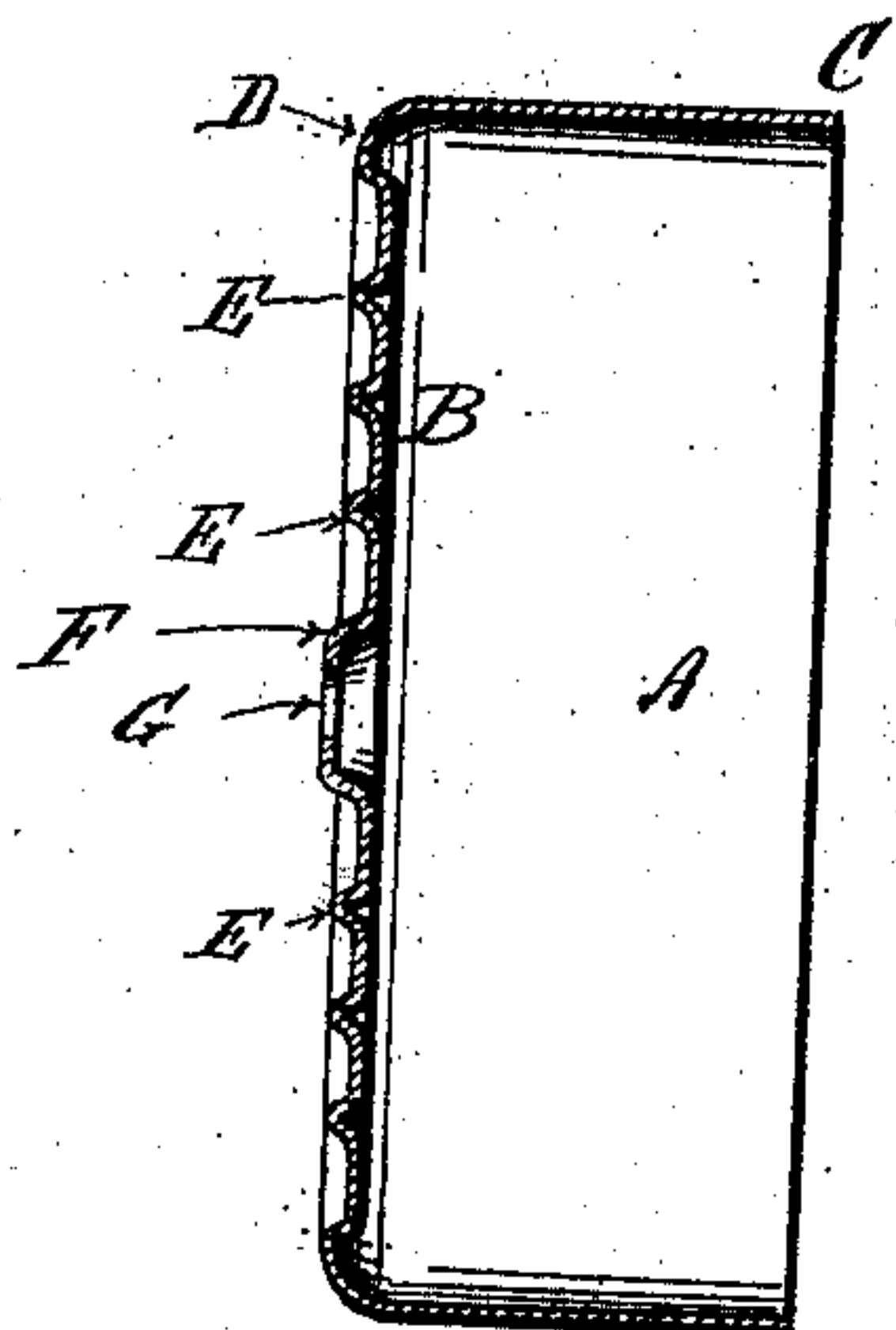
No. 505,164.

Patented Sept. 19, 1893.

*Fig. 1.*



*Fig. 2.*



Witnesses:

Geo. W. Miatt

H. Cantant

Inventor:

Edward William Mackenzie Hughes  
By his Attorney

E. N. Dickerson

# UNITED STATES PATENT OFFICE.

EDWARD WILLIAM MACKENZIE-HUGHES, OF CHICAGO, ILLINOIS, ASSIGNOR  
TO THE FOX SOLID PRESSED STEEL COMPANY, OF SAME PLACE.

## STEAM-CHEST-COVER CASING.

SPECIFICATION forming part of Letters Patent No. 505,164, dated September 19, 1893.

Application filed June 21, 1889. Serial No. 315,135. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD WILLIAM MACKENZIE-HUGHES, of Chicago, Cook county, Illinois, have invented a new and useful Improvement in Steam-Chest-Cover Casings, of which the following is a full, true, and exact description, reference being had to the accompanying drawings.

This invention relates to an improvement in steam chest cover casings made of pressed steel.

My invention will be readily understood from the accompanying drawings, in which—

Figure 1, represents a plan view; and Fig. 2, a central section through Fig. 1.

The cover A consists of a top B and side C having surrounding corrugated rib or projection D surrounding the cover of the steam chest. The top B is provided with numerous small elevations E pressed in the steel in the process of making the cover, and with a central cylindrical projection F having an opening G therethrough for the passage of the oil cup stem. By the formation shown the structure is made sufficiently strong for particular

purposes; while, at the same time, the weight is greatly reduced. The whole structure is pressed into its completed shape from a suitable blank in one operation. In this way I produce an article which is practically indestructible all of one sheet of metal, whereas in the present composite structures built up of cast iron the same are liable to constant breakage and are expensive to make and expensive to erect.

What I claim as my invention, and desire to secure by Letters Patent, is—

The pressed steel steam chest casing, having the top B, and side C with surrounding corrugation between the top and side, the projection F surrounding an opening in the top, and isolated projections E, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD WILLIAM MACKENZIE-HUGHES.

Witnesses:

W. S. HARTWELL,

WM. VOSS.