

(No Model.)

H. F. ALLEN.  
STEAM BOILER COVERING.

No. 294,951.

Patented Mar. 11, 1884.

Fig. 2.

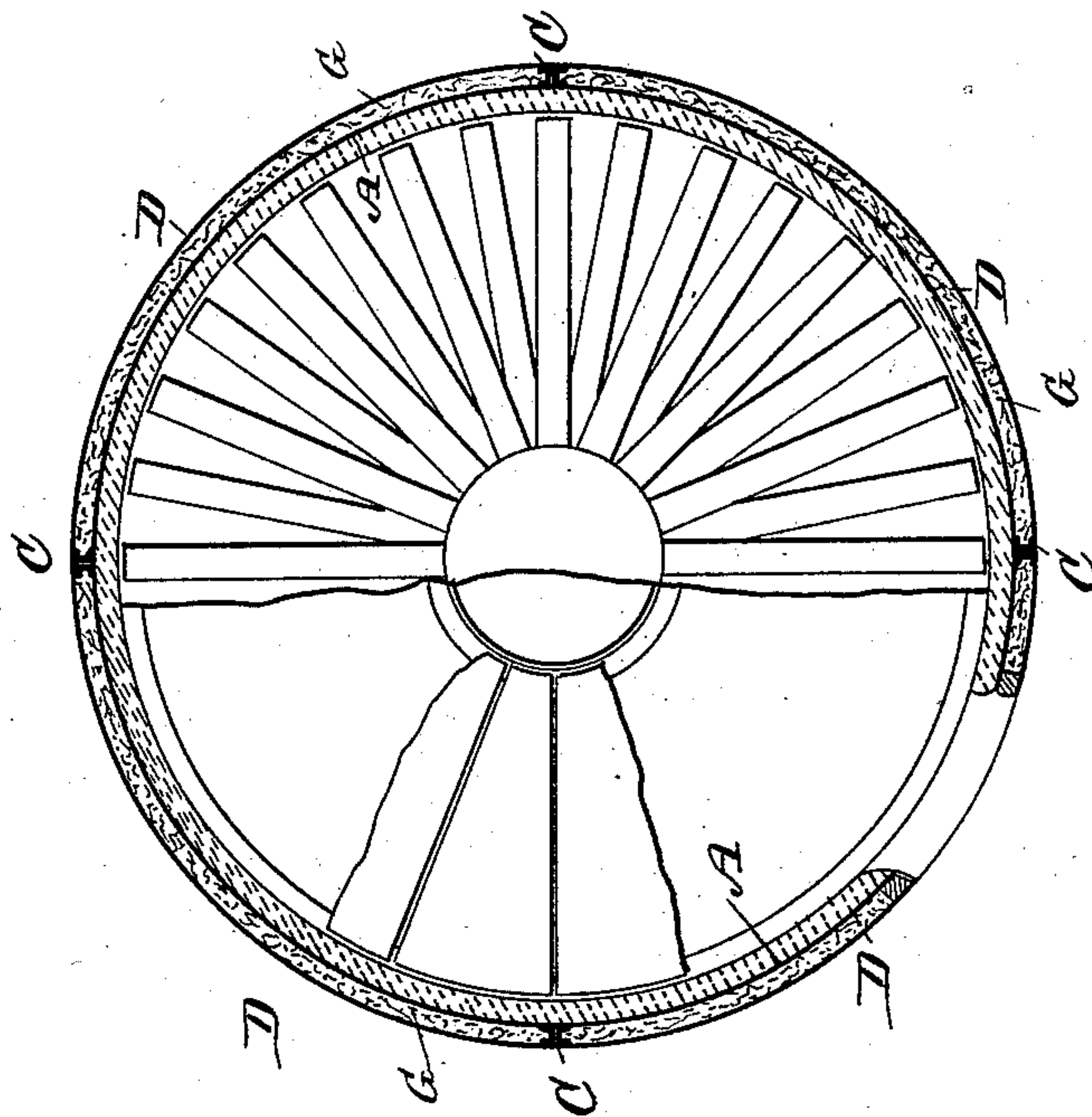
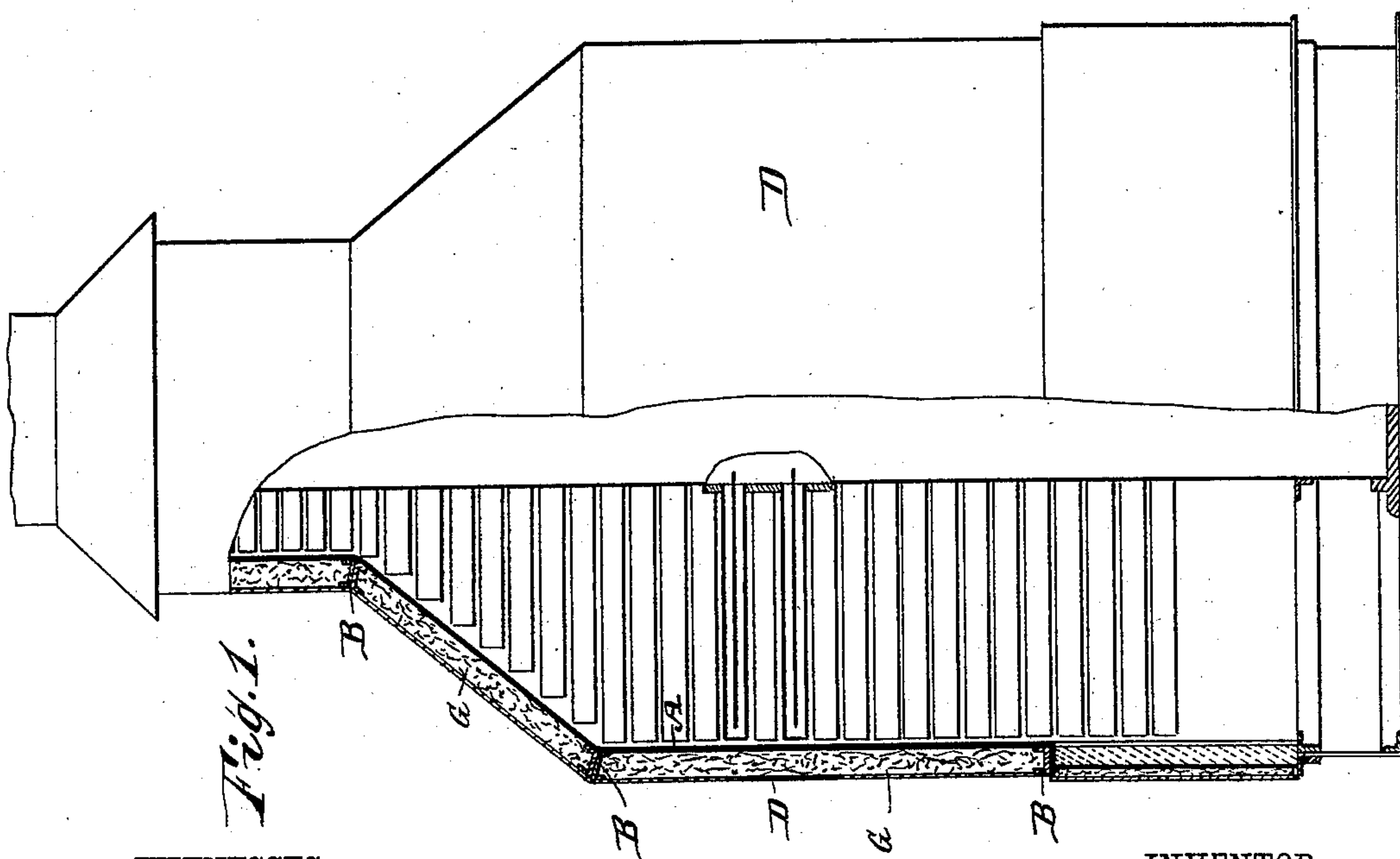


Fig. 1.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY F. ALLEN, OF NEW YORK, N. Y.

## STEAM-BOILER COVERING.

SPECIFICATION forming part of Letters Patent No. 294,951, dated March 11, 1884.

Application filed November 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY F. ALLEN, of the city, county, and State of New York, have invented a new and Improved Steam-Boiler Covering, of which the following is a full, clear, and exact description.

The object of my invention is to provide certain new and useful improvements in steam-boilers provided with non-conducting jackets, whereby the application of the said non-conducting jacket will be greatly facilitated.

The invention consists in the construction and arrangement of parts, as will be herein after described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal view of my improved boiler, parts being broken out and shown in section. Fig. 2 is a sectional plan view of the same.

On the outer surface of the shell A of the steam-boiler a series of horizontal and vertical ribs, B and C, respectively, are secured, which ribs are formed of channel-irons or double T-irons, or are otherwise so shaped that they can be riveted to the shell, and will have flanges at the outer edges. The horizontal and vertical ribs form a series of compartments on the boiler-shell, which compartments are filled with a non-conductor of heat, G, such as asbestos or mineral wool, and these

plates D are held in some suitable manner to the outer edges or flanges of the ribs B and C, for the purpose of holding the non-conducting material in place in the compartments. The plates D form a jacket, between which and the shell of the boiler the non-conducting material is held, the said jacket being formed in sections, thus facilitating securing it on the boiler, and also facilitating the application of the non-conductor to the boiler.

Any part of the jacket and the non-conductor can readily be removed for making repairs, &c., on the boiler without disturbing the rest of the jacket and non-conductor.

I am aware that a removable frame-work has been applied to a boiler, the compartments therein being filled with a non-conducting material, which is held in place by overlapping plates riveted to said frame-work.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a boiler, of vertical and horizontal ribs formed of double channel or T-irons secured on the outer surface of the shell, plates secured to the outer edges of the ribs, and of non-conducting material placed between the plates and the shell, substantially as herein shown and described.

HENRY F. ALLEN.

Witnesses:

OSCAR F. GUNZ,  
C. SEDGWICK.