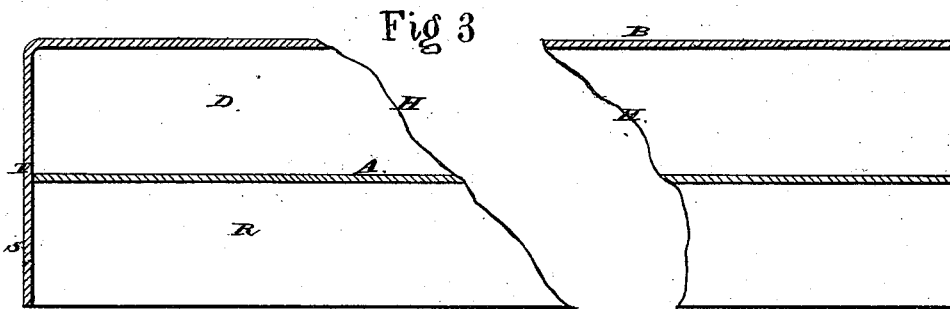
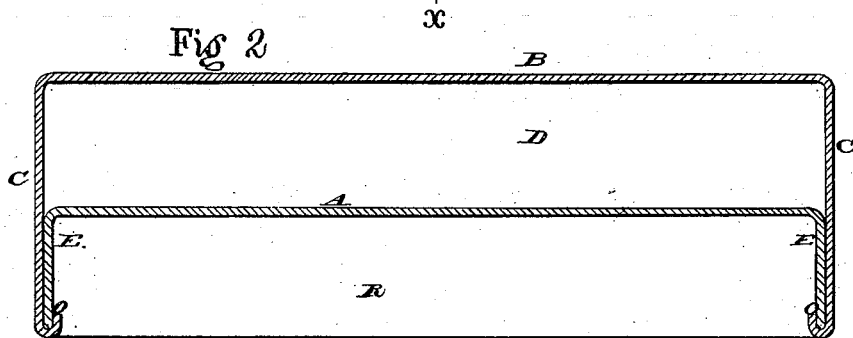
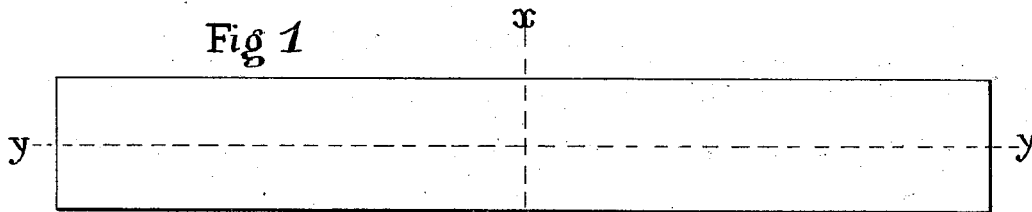


F. B. STEVENS.  
BOILER-COVERING.

No. 191,262.

Patented May 29, 1877.



Witnesses  
*C. S. Steyer*  
*A. Sigltinger*

Inventor  
*Francis B. Stevens*

# UNITED STATES PATENT OFFICE

FRANCIS B. STEVENS, OF HOBOKEN, NEW JERSEY.

## IMPROVEMENT IN BOILER-COVERINGS.

Specification forming part of Letters Patent No. **191,262**, dated May 29, 1877; application filed October 26, 1876.

*To all whom it may concern:*

Be it known that I, FRANCIS B. STEVENS, of Hoboken, New Jersey, have invented an Improvement in Boiler-Coverings, of which the following is a specification:

My invention consists in an improvement in the boiler-covering for which Letters Patent were granted me November 2, 1876, and numbered 169,492.

By my improvement I form each hollow metallic section for boiler-covering wholly from two plates of thin sheet-iron, or sheet-iron galvanized, using no rivets or other material.

Figure 1 shows a horizontal view of one of the hollow sections six inches wide and three feet six inches long. Fig. 2 shows a cross-section taken through the dotted line *xx* of Fig. 1. Fig. 3 shows a longitudinal section, taken through the dotted line *yy* of Fig. 1; but the full length of three feet six inches of this longitudinal section is not shown, the part between the broken lines *H H* being omitted.

*B* is the outer plate of the hollow section; and *C C* show flanges bent on the two long sides of the plate *B*; and *O O* show lips bent on the edges of the flanges *C C*.

*A* is the inner plate of the hollow section; and *E E* show flanges bent on the two long sides of the plate *A*, the edges of the flanges *E E* fitting into the recesses formed by the

lips *O O*, and when the inner plate *A* is placed in the position shown in Fig. 2 the lips *O O* are compressed on the ends of the flanges *E E*, and thus fasten the plates *A* and *B* together. *D* shows the hollow space between the plates *A* and *B*, and *R* shows the hollow space between the plate *A* and the boiler.

The end of the sheet *B* is shown, at the left hand of Fig. 3, bent over, and forming the flange *S*, and closing that end of the hollow section. No lips are shown bent at the edge of the flange *S*, and no flange is shown on the end of the plate *A*, where it touches or meets the flange *S* at *T*, the two plates *A* and *B* being fastened together wholly by the lips *O O*, as shown in Fig. 2.

The plates *A* and *B* I generally make about one-fortieth of an inch thick.

When the hollow sections are made six inches wide, the flanges *C C* will make these sections sufficiently stiff for ordinary usage without the addition of cross-ribs.

I claim as my invention—

The combination of a boiler-covering made of hollow sections of metal, formed by the inner flanged plate *A*, secured to the outer flanged plate *B* by the lips *O O*.

FRANCIS B. STEVENS.

Witnesses:

C. S. STRYKER,  
F. AIGETTINGER.