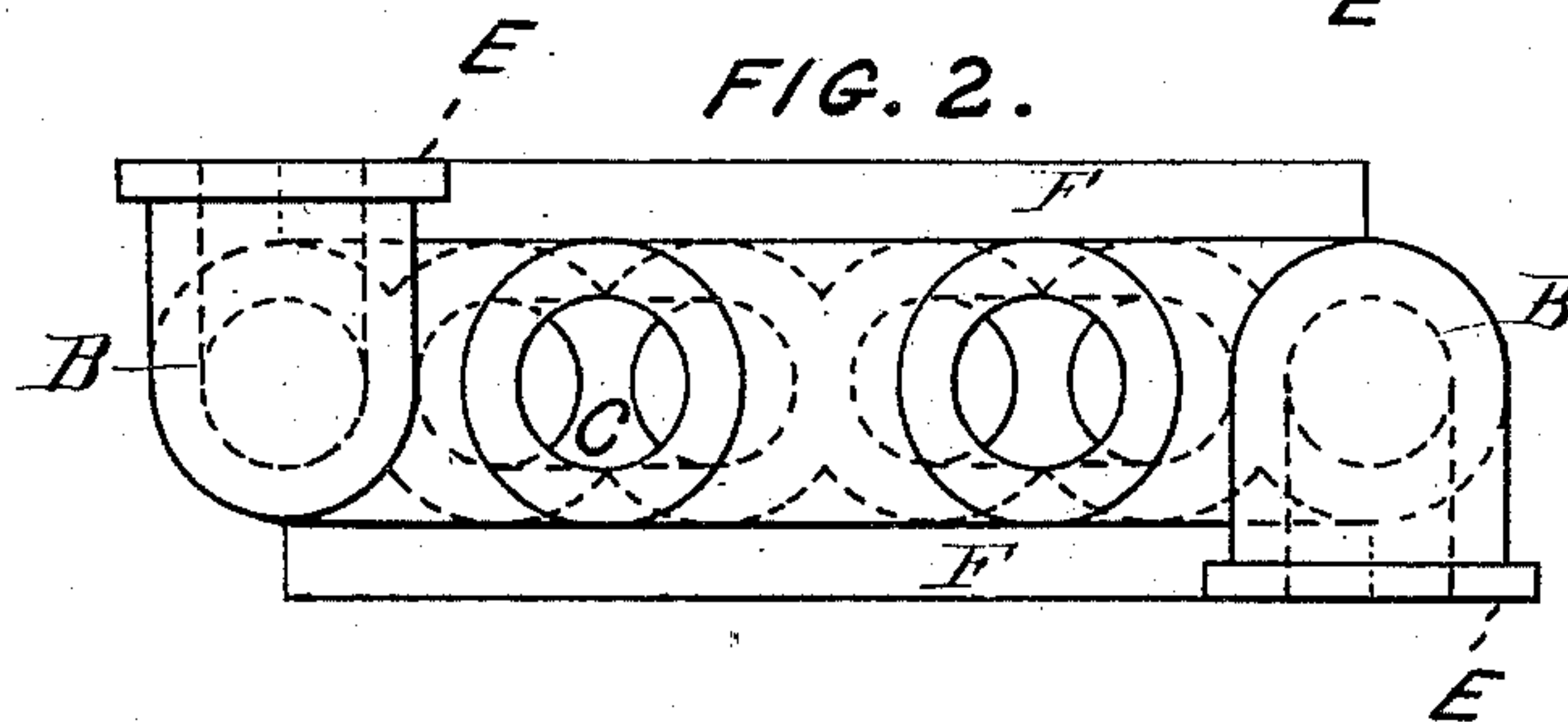
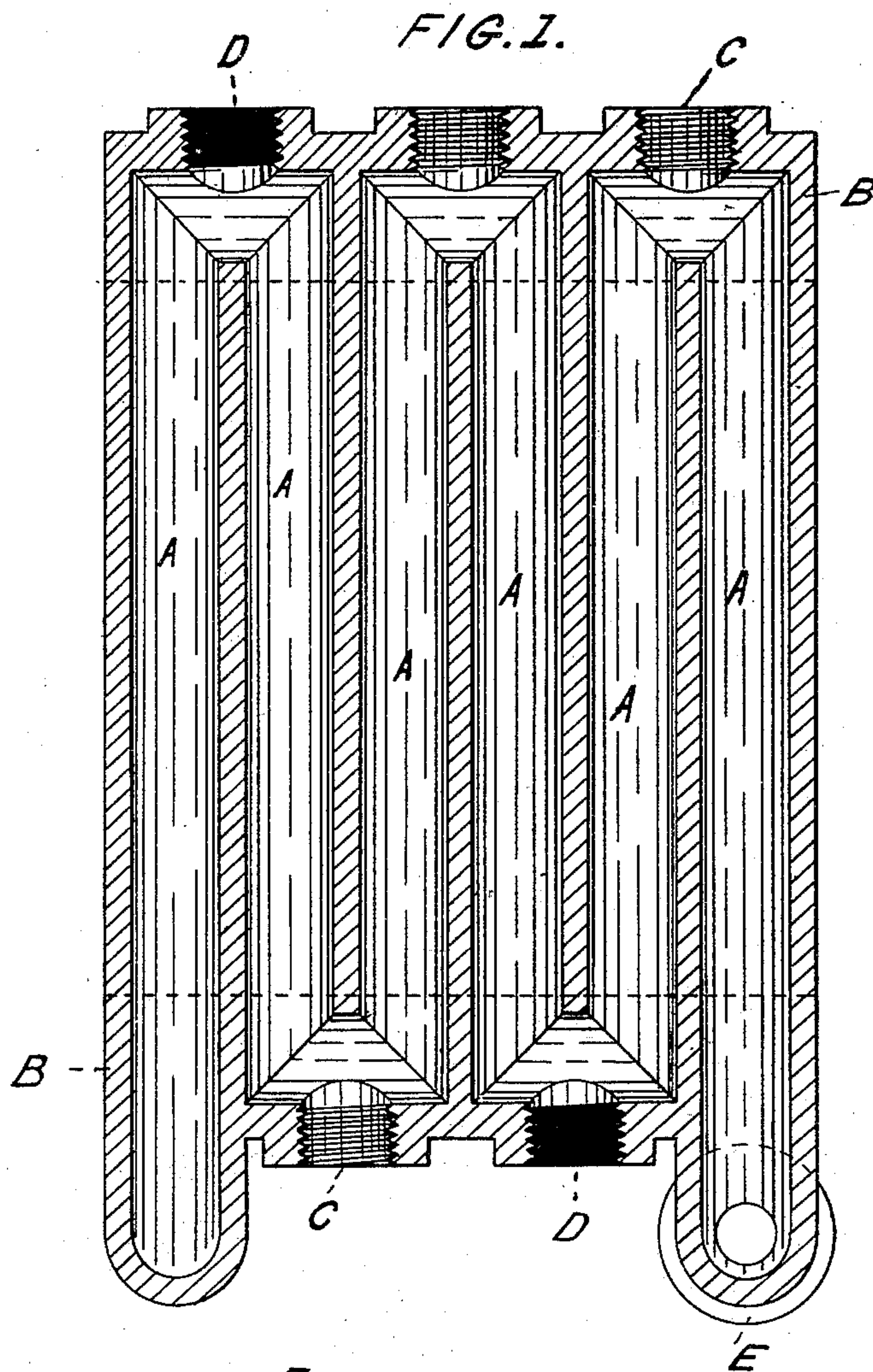


G. H. POND.  
Steam Radiator and Generator.

No. 232,844.

Patented Oct. 5, 1880.



WITNESSES.

E. R. Knowles.

G. Stackpole

INVENTOR.

Goldsbury H Pond.

# UNITED STATES PATENT OFFICE.

GOLDSBURY H. POND, OF NEW YORK, N. Y.

## STEAM RADIATOR AND GENERATOR.

SPECIFICATION forming part of Letters Patent No. 232,844, dated October 5, 1880.

Application filed January 26, 1880.

*To all whom it may concern:*

Be it known that I, GOLDSBURY H. POND, of New York city, in the county and State of New York, have invented a certain new and  
5 useful Improvement in Steam Radiators and Generators, of which the following is a specification.

My invention consists of a cast-iron plate having a continuous tubular passage running  
10 back and forth through it, said tubular passage being the same as that of a pipe bent back and forth to form a coil of pipe, several turns being made, and in each turn a hand-hole for cleaning it out, and with the couplings  
15 turned one to the right and the other to the left for convenience of coupling to other pipes to form one continuous tubular passage of any desired length, each section cast in one piece complete.

20 The object of my invention is to reduce the cost of manufacturing by reducing the number of joints commonly used in this class of steam generators and radiators. I attain these objects by the device illustrated in the accompanying drawings, in which—

25 Figure 1 is a vertical section of my improved steam radiator or generator. Fig. 2 is a top view of the same.

A is the tubular passage. B is the head; C, hand-holes for cleaning, and D screw-plugs to  
30 close the openings C. E E are coupling-flanges by which to attach other sections. F F are flanges or ribs which form a part of each section, and are for the purpose of holding the sections apart to make room for fire-space be-  
35 tween them when used for a steam-generator.

I do not claim a cast-iron radiator having a single straight passage across it with a diaphragm cast within, as shown in patent of Campbell and Whittier, dated July 26, 1870; 40 nor do I broadly claim a cast-iron generator or radiator with openings cast therein for the circulation of steam; but

What I do claim, and desire to secure by Letters Patent, is—

45 An iron plate cast in one piece with a continuous tubular passage, A, running back and forth through it, making several turns, as shown, and having hand-holes C in each turn, and the couplings turned one to the right and  
50 the other to the left for convenience of coupling to other sections, substantially as set forth.

GOLDSBURY H. POND.

Witnesses:

G. STACKPOLE,  
C. G. WEATHERBY.