

(No Model.)

3 Sheets—Sheet 1.

J. J. RICHARDSON.
BOILER BASE.

No. 538,793.

Patented May 7, 1895.

Fig. 1

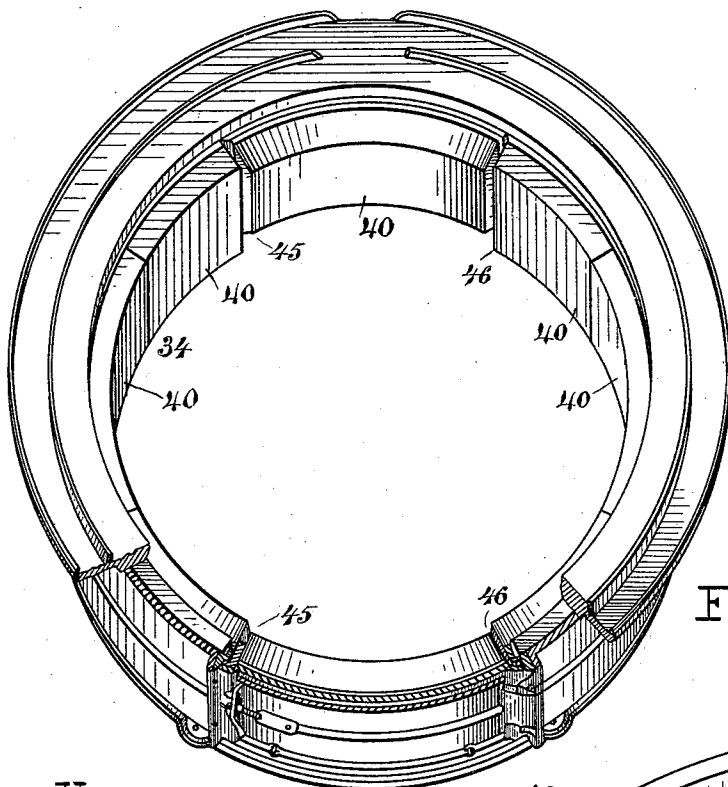
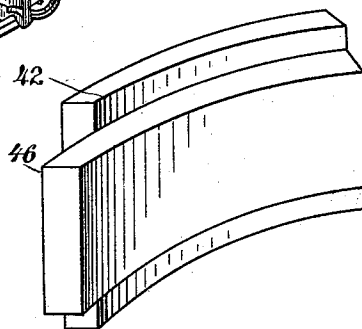
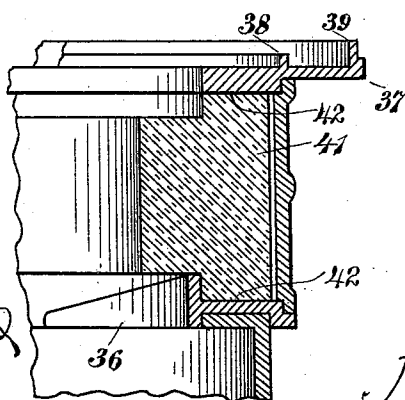


Fig. III.

Fig. II.



WITNESSES:

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C. H. Ott

INVENTOR:

J. J. Richardson
Rich Bds
attys

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Fig. IV

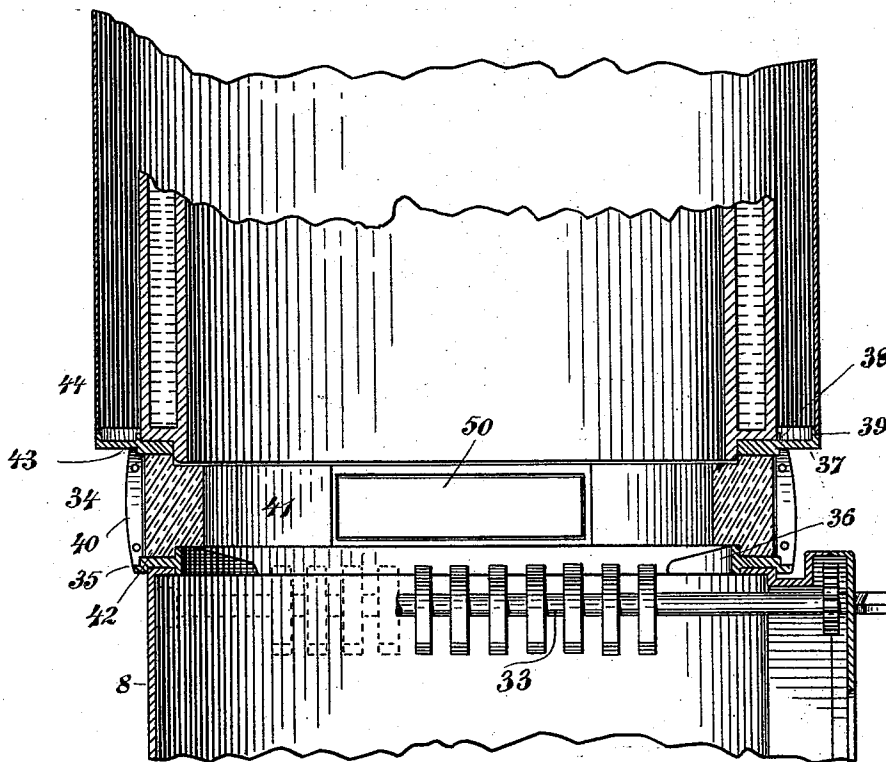
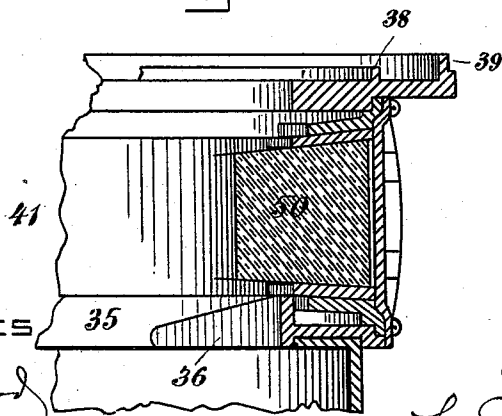


Fig. V



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(No Model.)

3 Sheets—Sheet 3.

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Fig. VI

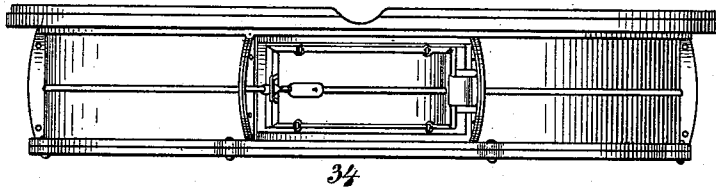


Fig. VII

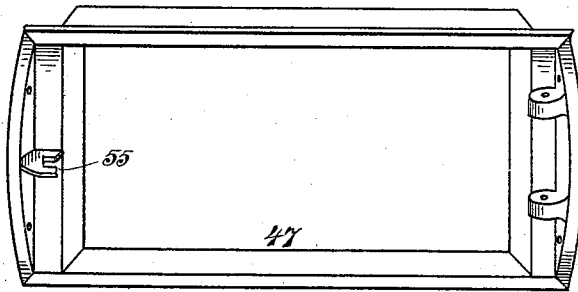


Fig. VIII

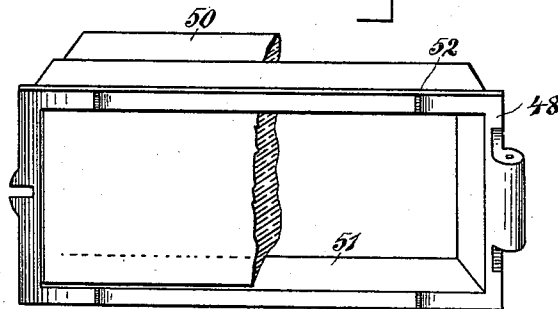
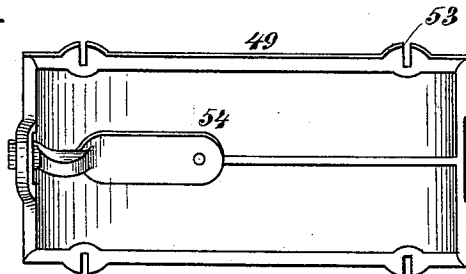


Fig. IX.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

JEREMIAH J. RICHARDSON, OF BROOKLYN, NEW YORK.

BOILER-BASE.

SPECIFICATION forming part of Letters Patent No. 538,793, dated May 7, 1895.

Original application filed May 5, 1894, Serial No. 510,175. Divided and this application filed February 27, 1895. Serial No. 539,848. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH J. RICHARDSON, a citizen of the United States, residing at Brooklyn, county of Kings, State of New York, have invented certain new and useful Improvements in Boiler-Bases, of which the following is a specification.

My invention relates to an improved form of boiler base.

The object of my invention is to provide a supporting base for a steam boiler, which shall form part of the fire-pit thereof, and which shall be of simple construction and of great durability and efficiency.

My invention is a division of application Serial No. 510,175, filed May 5, 1894, which is my application for a patent on a steam boiler.

My boiler base is shown in the drawings in which like numerals refer to like parts.

Figure I is a perspective view of my invention. Fig. II is a section of one side of my boiler-base, showing the fire-brick lining and part of ash-pit. Fig. III is a perspective view of one of the fire-bricks used therewith. Fig. IV is a sectional view of my invention *in situ* beneath a boiler. Fig. V is a sectional view through the door therein. Fig. VI is a front view of the ring shown in Fig. I. Figs. VII, VIII, and IX are detail views of the door and its frame.

Referring now to the figures, which show my device in connection with the other parts beneath the boiler, it will be seen that the casing of the ash pit 8 supports the composite ring 34. Shown detached in Figs. I and VI. This ring is made up of the lower annulus 35 the section of whose rim is T-shaped and which bears on its inner periphery projections or teeth 36 which serve as part of the grate surface and fill up the segmental spaces left by the transverse grate-bars 33; of the upper annulus 37 which is provided with annular ridges or shoulders, 38, 39 to afford seating for the boiler and its outer casing as shown in Fig. IV; the sectional side-plates 40 bolted to and holding apart the two rings 38 and 37, and the fire brick lining 41 made up of separate bricks which are provided with shouldered portions 42 engaging the lower lip 43 of the boiler and the upper lip 44 of

the ring 35. This construction enables the bricks 41 to be inserted and removed at will. They are passed through one or other of the door-ways 45 provided at opposite sides of the ring 34 and are slid to their places in the ring. They may thus be renewed without taking the boiler down. The bricks adjoining the door-ways are formed with the extension 46 shown in Fig. III to provide a seat for the door.

The construction of the door and its frame and casing is best gathered from Figs. VI and IX. The casing 47 is of the form shown in Fig. VII and is bolted to its place in the ring 34. The door is shown in Figs. VIII and IX and consists of a frame 48 and an outside plate 49 with a fire brick 50 resting in tapered seat 51 in frame 48. On said frame 48 I provide lugs 52 which enter slots 53 in the outside plate 49 and said plate is then held in place on said frame by means of suitable bolts.

A latch 54 carried by the outside plate 49 engages a lip 55 on the door casing 47 to hold the door closed. When the fire bricks 41 are to be renewed, the door casing 47 and the door carried thereby are removed bodily from the ring 34 so that the old bricks may be slid around and moved through the door aperture and new bricks may then be inserted through the same aperture and slipped into place.

It is obvious that the door-ways 45 are useful not only in enabling the insertion of new fire bricks 41 but make the grate accessible for the purpose of cleaning from clinkers, &c.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A base or support for a boiler furnace consisting of the ash receiving casing 8 and the separate removable ring 34 consisting of rings or annuli 35, 37, side plates 40 and fire bricks arranged between said plates 35 and 37, substantially as set forth.

2. The combination of the ring 34 consisting of annuli 35, 37, side plates 40 and shouldered fire bricks 41 and provided with a suitable aperture or apertures 45 and the boiler adapted to seat on said annulus 37 and having a downwardly projecting lip 43, substantially as and for the purposes set forth.

3. The combination of the ring 34, the door

casing 47 bolted thereto, a door frame 48 having socket 51, fire brick lining 50, lugs 52 and slotted outside plates 49, all arranged and adapted to operate, substantially as set forth.

- 5 4. The combination of the annulus 35 having projections 36 forming part of the grate surface and upwardly projecting lip 44, the side plates 40, the upper annulus 37 supported by said side plates, the boiler supported on

said annulus 37 and having downwardly projecting lip 43 and the shouldered removable fire bricks 41 all arranged and adapted to operate, substantially as set forth. 10

JEREMIAH J. RICHARDSON.

Witnesses:

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