



Reported Officially for the Scientific American. LIST OF PATENT CLAIMS Issued from the United States Patent Office FOR THE WEEK ENDING JUNE 27, 1854.

FURNACE OF STEAM BOILERS—Jonathan Amory and W. P. Parrott, of Boston, Mass.: We claim conducting off the carbonic acid gas, or other heavy and incombustible gases, which check combustion, by means of a pipe which communicates with the bottom of the furnace at or near one end of the same, and with the smoke pipe or flue, as described.

are burned of pure tin or other metals of which tin forms a large proportion, thickly coated with tin, for the purpose set forth. Second, making the tube and inner portion of burners of tin or any metal thickly coated with tin, to prevent corrosion, and to avoid the use of solder.

a movable and adaptable head frame, round or otherwise, consisting of the following parts, viz.: the head frame, the bar, the uprights, the head cushion, the straps, and the hooks, as represented.

to the arbor, which forms the tumbler shaft, operating as set forth. Second, locking and unlocking the sliding breech-pin by means of a locking piece which slides in grooves in the stock or shank of the gun and a lever, having a stud working freely in a slot of suitable form, in a plate attached to the same arbor as the levers by which the breech pin is operated, the whole being as set forth.

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