(12) **United States Patent**
Wilson

(10) **Patent No.: X5015**
(45) **Date of Patent: Feb. 22, 1828**

(54) **BOILERS, STEAM,STONE COAL FOR**

(76) Inventor: **James G. Wilson**

United States Patent **Patent No.: X5015**

James G. Wilson a Citizen of the United States.

Letters Patent

Dated February 22d 1838.

The Schedule referred to in these Letters Patent & making part of the same, containing a description in the words of the said James G. Wilson himself of his improvement in Steam Boilers for using stone coal.

Set a boiler is made of suitable materials for burning Stone Coal & the boiler is divided into three sections, & two sections lay on a horizontal plane parallel to each other, and at a sufficient distance apart to admit the coal, & the other section lay horizontally, but directly over the other two, presenting the salient angle of a triangle & at a sufficient distance to admit the coal. These sections may be of a round square or angular form at the ends of each section there are openings so as to give a free communication of water from one to the other. On one or both sides of the boiler may be doors fastened to the upper sections so as to open & admit fuel between the upper & lower sections, these doors are divided so as to feed the fire at different times & when shut they are intended to confine the heat within the body of water. Under the lower sections is a grate to lay the coal on, underneath the grate is a shaft with fans on it which is worked by having one or both ends attached to the machinery & when in operation the shaft by increasing or diminishing the velocity of its revolution with gradually the heat.

What I claim as my invention is the arrangement of the boiler the principle of spreading the coal between the lengths of the sections of the boiler and feeding the fire sections, and the principle of creating a draft by shafts & fans, & the use to which this improvement is applied. N. York 25th January 1838.

Witnesses)
Geo. White
S. Sumner

James G. Wilson

(Seal)

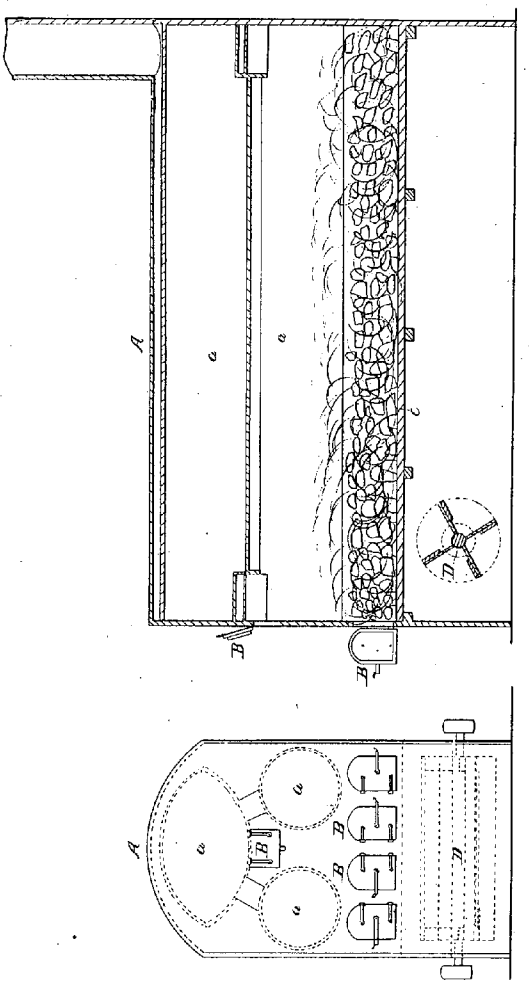
Recorded and Recorded June 23. 1841 — Examined, HJC.

5015X

J. G. Wilson,

Steam-Boiler Furnace,

Patented Feb. 22, 1828.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.