

No. 622,277.

Patented Apr. 4, 1899.

R. SCOTT.  
REGISTER.

(Application filed Mar. 28, 1898.)

(No Model.)

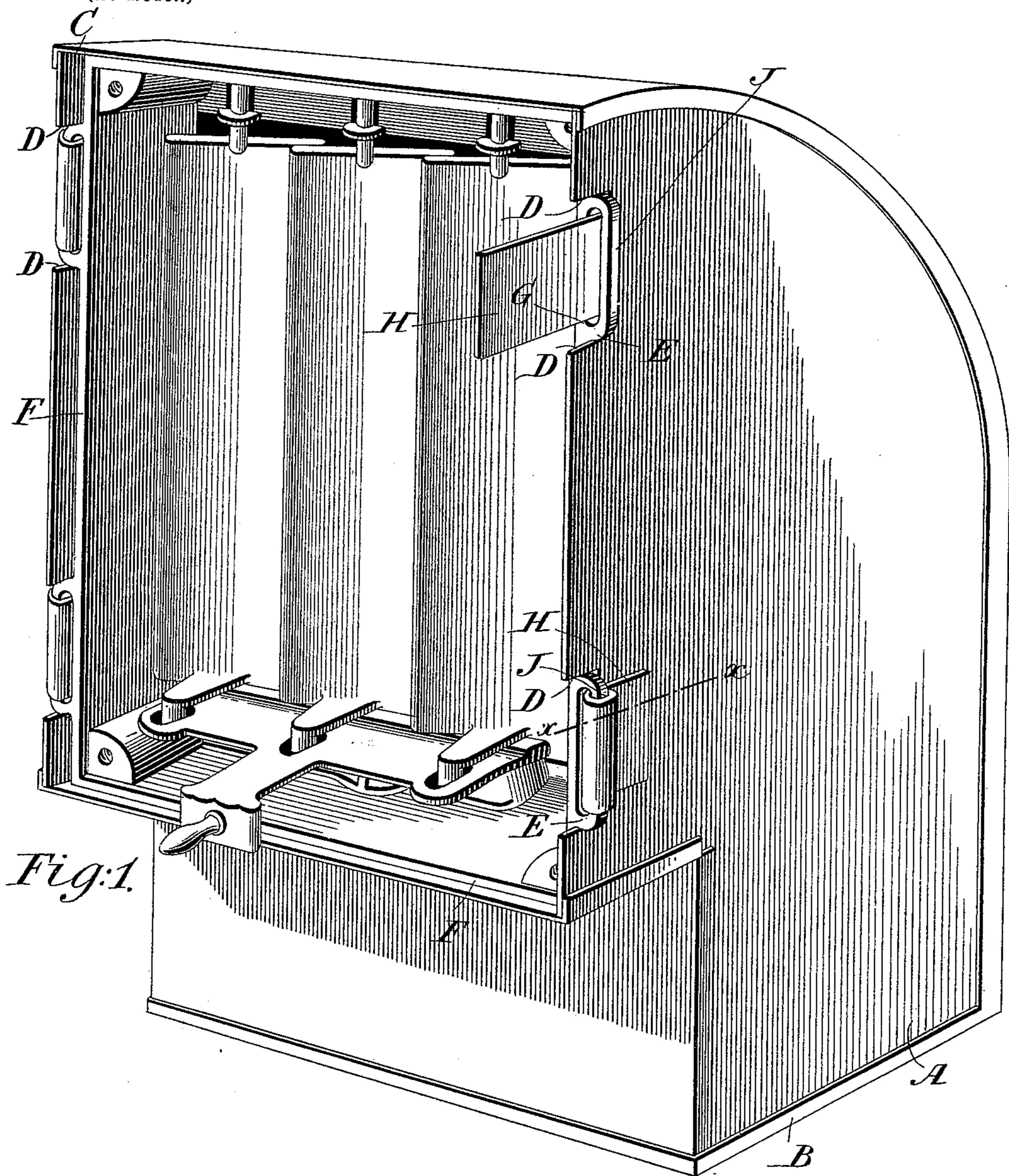


Fig:1.

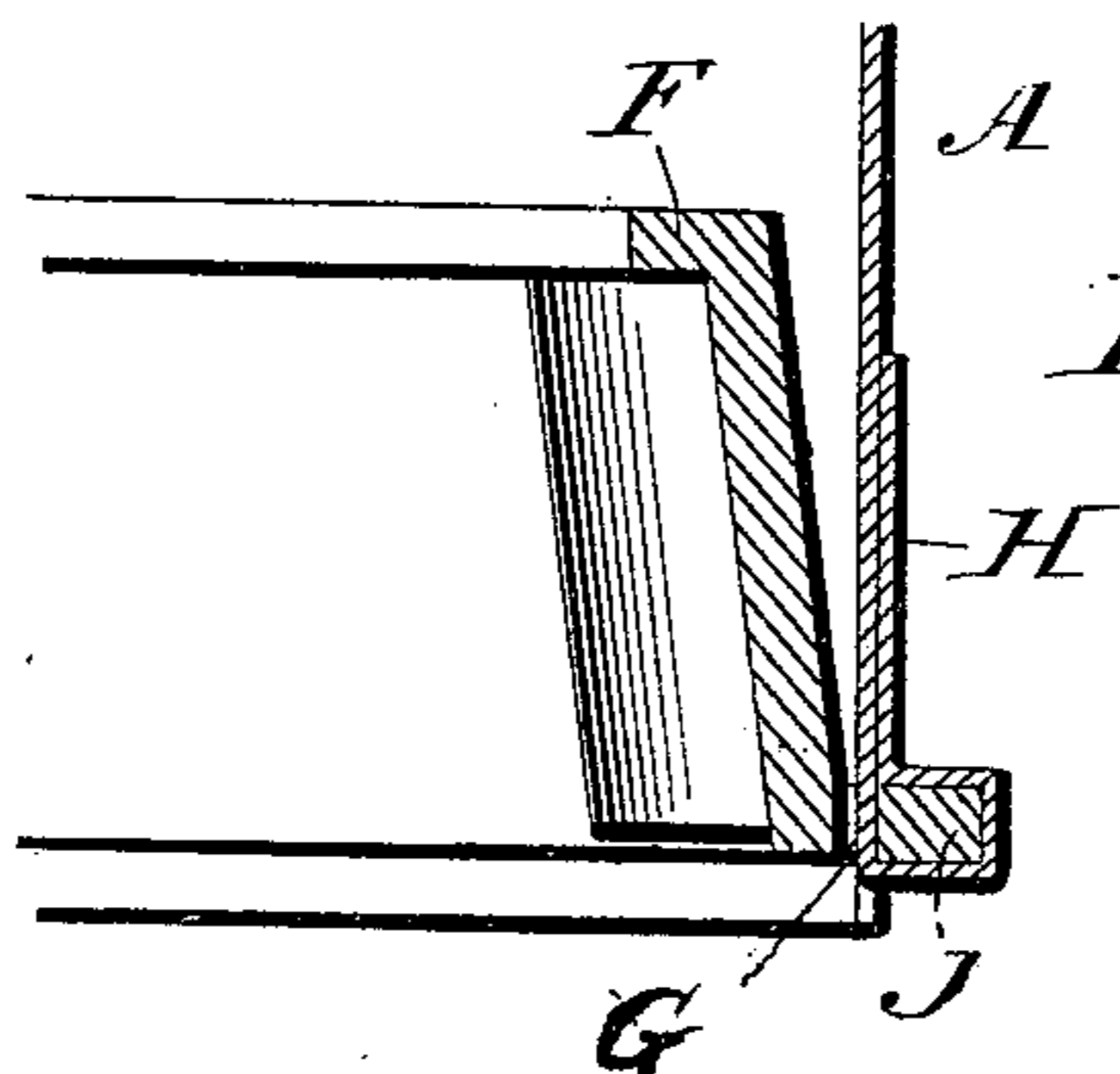


Fig: 2.

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# UNITED STATES PATENT OFFICE.

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## REGISTER.

SPECIFICATION forming part of Letters Patent No. 622,277, dated April 4, 1899.

Application filed March 28, 1898. Serial No. 675,374. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT SCOTT, a citizen of the United States, residing at Glenside, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Registers, which improvement is fully set forth in the following specification and accompanying drawings.

This invention relates to a register; and it consists of improved means involving tongues and ears for securing the frame thereof in the hot-air duct, whereby said means are concealed by the face-plate and provision is made for securely and rigidly sustaining said frame in position on the duct.

It further consists of novel details of construction, all as will be hereinafter fully set forth, and particularly pointed out in the claims.

Figure 1 represents a perspective view of a register, showing also a duct and means for securing the frame of said register within said duct embodying my invention, one of the securing devices being shown in unlocked position. Fig. 2 represents a section on line  $xx$ , Fig. 1.

Similar letters of reference indicate corresponding parts in the figures.

In accordance with the principle of this invention I provide the side pieces of the duct with recesses and tongues, the latter being within said recesses, the terminals of said recesses forming shoulders above and below the tongues, the upper shoulders being adapted to rest on the adjacent ears of the register-form, thus supporting the duct, while the tongues enter said ears to lock the duct and frame, the lower ears forming abutments, on which the ears are rested, so that should the tongues and ears disengage the duct is prevented from dropping into the hot-air flue, as it remains supported on the ears, while the falling of the register-frame is prevented, as its ears remain supported on the lower shoulders of the recesses. In applying the face-plate in position it may abut against the tongues and partially turn the latter sidewise,

so that the proper bending of said tongues into locking condition with the ears may be readily accomplished.

In the particular embodiment of my invention illustrated, A designates the duct of a hot-air register, having an open bottom B and an open front or mouth C, which latter is adapted to discharge the heat into an apartment through the open face-plate, as usual. The frame F of the register-works, which is within the mouth of the duct A, has ears or pieces E on the sides thereof. The duct A has in the front ends of its sides the forwardly-projecting tongues H and recesses D above and below said tongues, the pieces being adapted to enter said recesses and to be engaged by said tongues and rest on the lower walls of said recesses, said walls forming the shoulders or rests hereinbefore referred to.

When the register-frame is located in the duct, the tongues are bent laterally over the pieces E, thus interlocking said pieces, said pieces and tongues connecting the register-frame with said duct, so that should the tongues break the frame will remain supported on the duct. When the face-plate is applied, it conceals the pieces E and tongues H, thus causing the device to present a finished appearance, while also preventing the tongues from bending forwardly and releasing themselves from the pieces E.

Although I have shown two fastening devices at each side of the duct, it is understood that the number can vary, the invention comprising, broadly, the securing and sustaining means, comprising a lateral ear or piece on the frame to rest upon and be sustained by a shoulder upon the duct and to be engaged and secured by a laterally-bent tongue upon the duct.

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

1. In a register, a duct having in its side a recess forming supporting-shoulders, a forwardly-projecting tongue within said recess, and a register-frame having a laterally-pro-

jecting ear which enters said recess, receives said tongue and is adapted to engage said shoulders.

2. In a register, a duct having a forwardly-  
5 projecting tongue thereon and recesses respectively above and below said tongue, the lower recess providing a shoulder, and a register-frame having a laterally-projecting

ear which receives and interlocks with said tongue, enters said recesses and is adapted to be supported on said shoulder.

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Witnesses:

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