

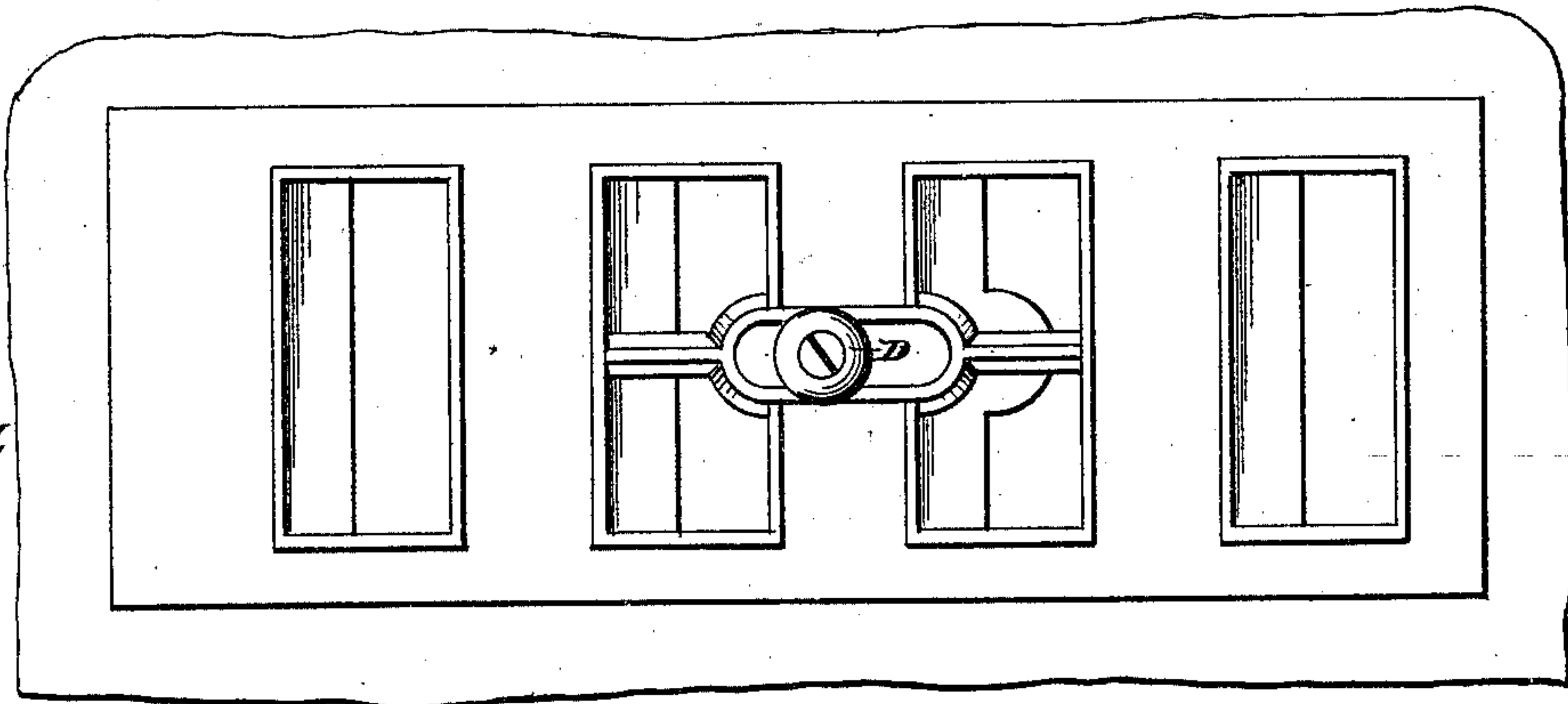
L. A. WHITE & G. W. LEWIN.

REGISTER FOR STOVES.

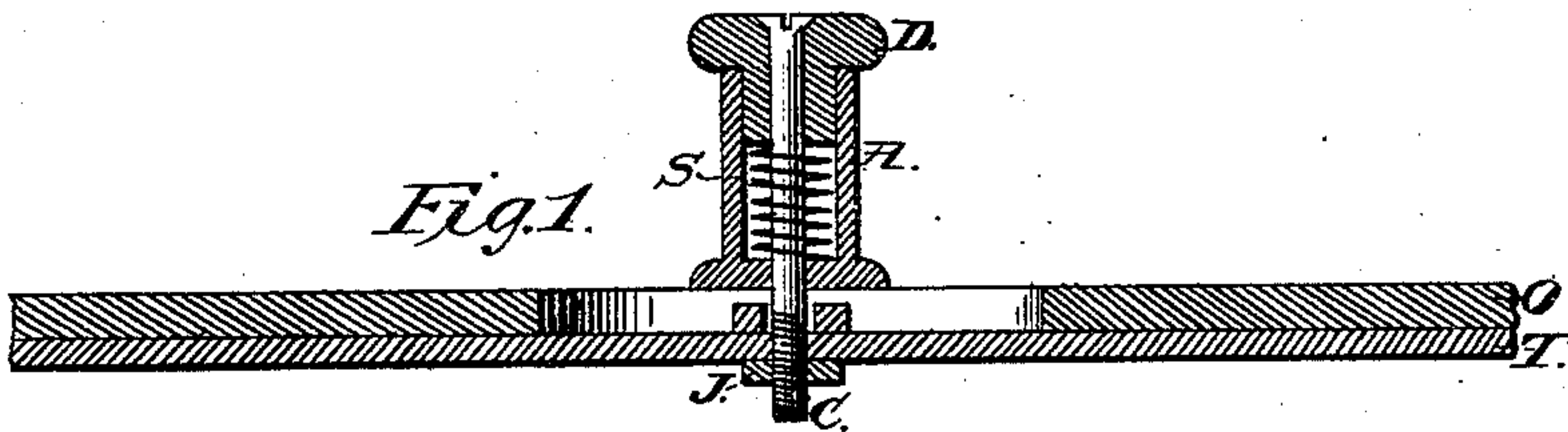
No. 170,792.

Patented Dec. 7, 1875.

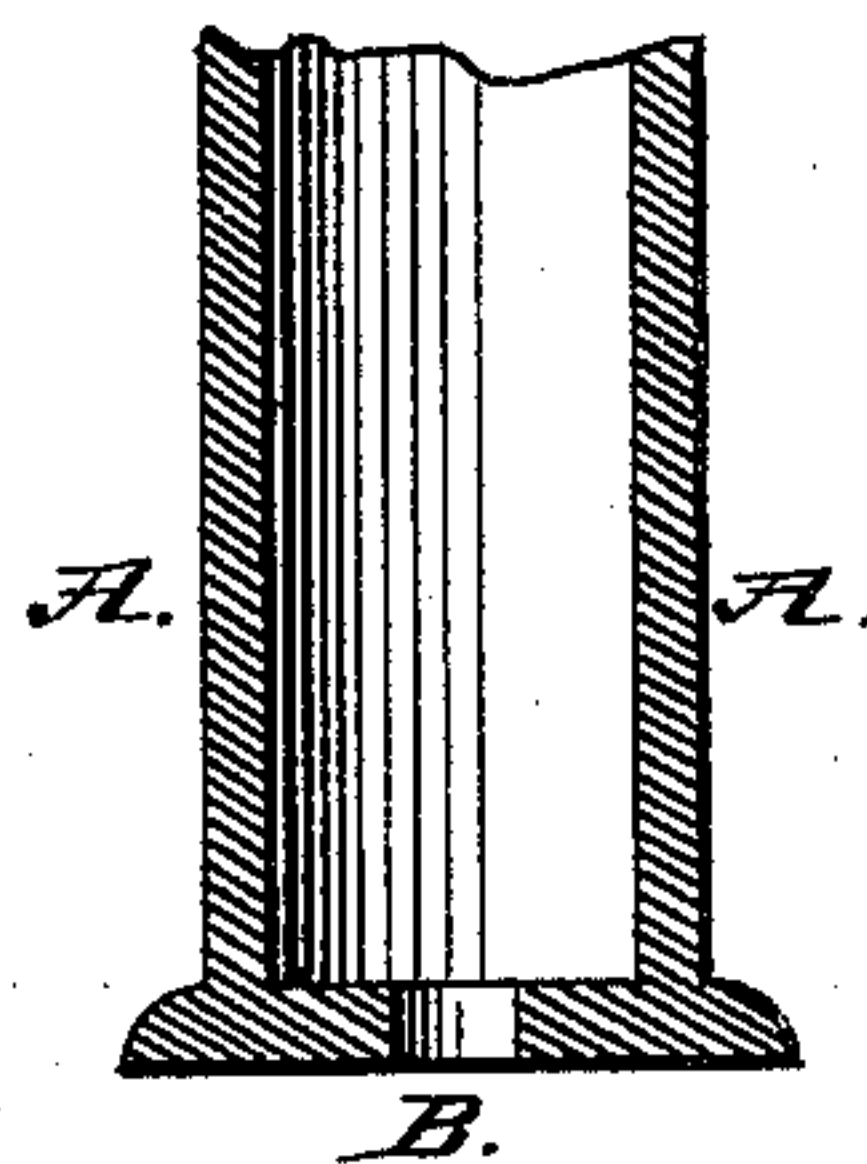
*Fig. 4.*



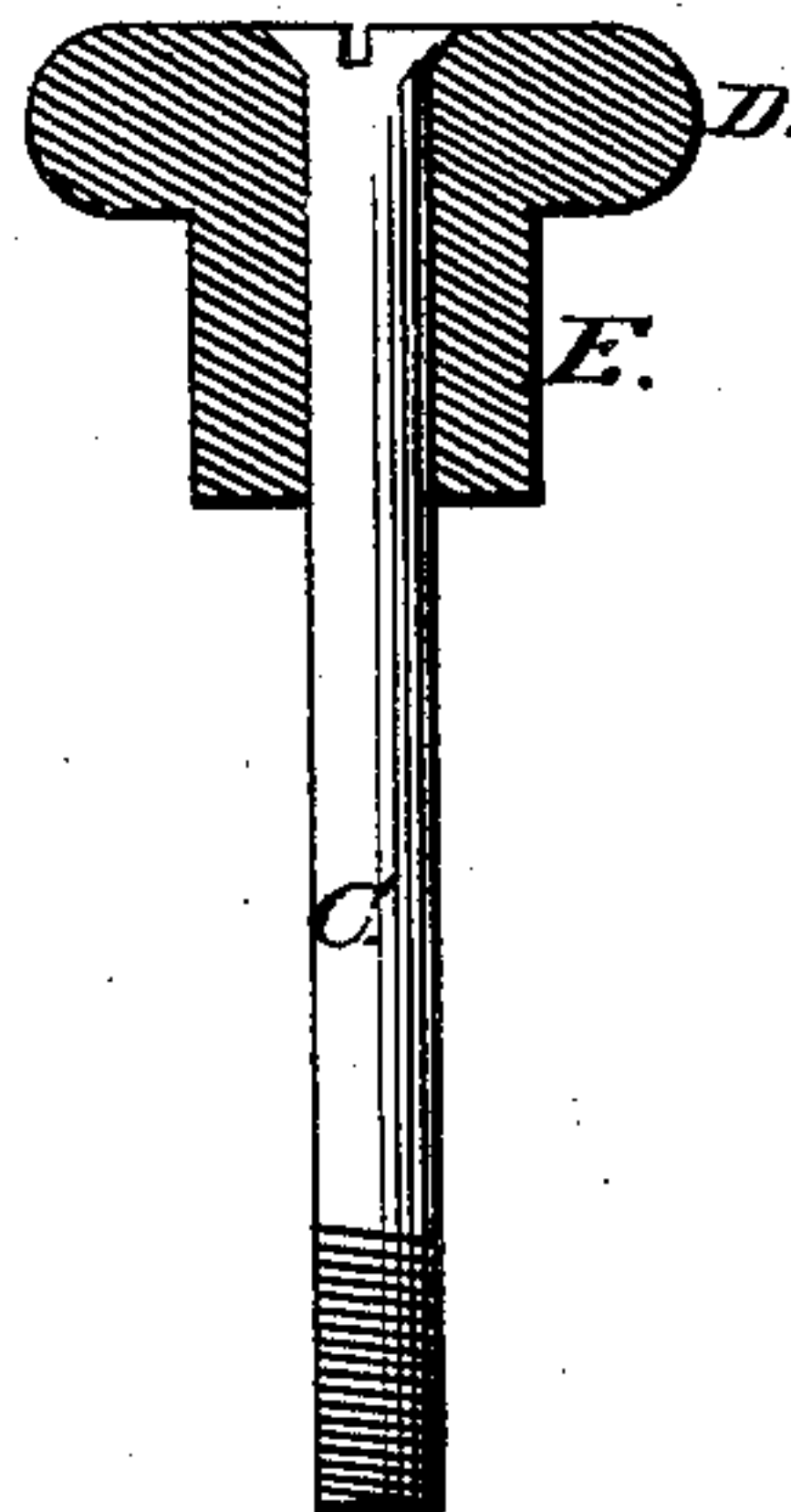
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses:*

*Lem. T. Talbot.*  
*Stephen Pierce.*

*Inventors:*

*Leonard A. White.*  
*George W. Lewin.*

# UNITED STATES PATENT OFFICE.

LEONARD A. WHITE AND GEORGE W. LEWIN, OF DIGHTON, MASS.

## IMPROVEMENT IN REGISTERS FOR STOVES.

Specification forming part of Letters Patent No. 170,792, dated December 7, 1875; application filed April 3, 1875.

*To all whom it may concern:*

Be it known that we, LEONARD A. WHITE and GEORGE W. LEWIN, both of Dighton, in the county of Bristol and State of Massachusetts, have invented an Improved Knob or Handle for Slides or Registers on Stove or Furnace Doors, of which the following is a specification:

The object of our invention is to so attach a slide to a stove-door that, while it (the slide) may be readily moved, it will at the same time, and always, fit closely to the door—so closely as to be nearly or quite air-tight. This we accomplish by means of the knob or handle which is used to move the slide, and which is herein described.

This invention is illustrated in the accompanying drawings, making a part of this specification, in which—

Figure 1 is a sectional view of the improved knob as applied to a slide and door; Fig. 2, an enlarged sectional view of the shell or shank of the knob; and Fig. 3, the top or cap of the knob with its rod attached.

A, the shell; B, the hole or opening in the bottom of the shell to admit the rod C; D, the cap or top finish of the knob. Immediately below this cap or circular top is a portion that fits loosely into the shell A, for the purpose of steadying the cap D, and is shown at E. C, an iron rod cast into the cap D, having a thread cut upon its lower end, and upon which is fitted the nut J; O, the door; and T, the slide. The various parts or pieces of this knob are of metal. The shell A and the cap D may be of cast-iron, the rod C and the nut J of wrought-iron, and the spring S of steel.

It is a very desirable point in the fitting up of stove or furnace doors, or wherever a sliding register is used, to have the same as nearly air-tight as possible. There is no difficulty in doing this, when first set up at the

manufactory, by any of the old methods; but in a short time the slides become worn, loosen, and are a source of much annoyance, especially where it is desirable to shut off all draft.

In this invention the spring S within the knob continually draws or hugs the slide to the door, and whatever wear there may be by the friction of the two parts together has of itself a tendency to fit them still closer, and thus more effectually prevent any leakage of air.

The knobs are applied by passing the rod or bolt C through the open space made for it in the door O, through the slide T, and there securing it by means of the nut J. The amount of pressure with which the door and slide are held together is in a great measure regulated by the nut J in connection with the spring S.

The same result as above described may be obtained by dispensing with the spring S within the knob, and in lieu thereof attaching a flat spring to the rod C after it passes through the slide, or, in other words, between the slide and the nut; but by thus placing the spring next the fire it is liable to be injuriously affected by the heat, and become useless.

We do not claim the holding together of two surfaces by means of either a flat or spiral spring; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

The hollow shank or casing A, the cap D, the rod C, and the spring S, when used together for the purpose and in the manner substantially as herein set forth.

LEONARD A. WHITE.  
GEORGE W. LEWIN.

Witnesses:

LEML. T. TALBOT,  
STEPHEN PIERCE.