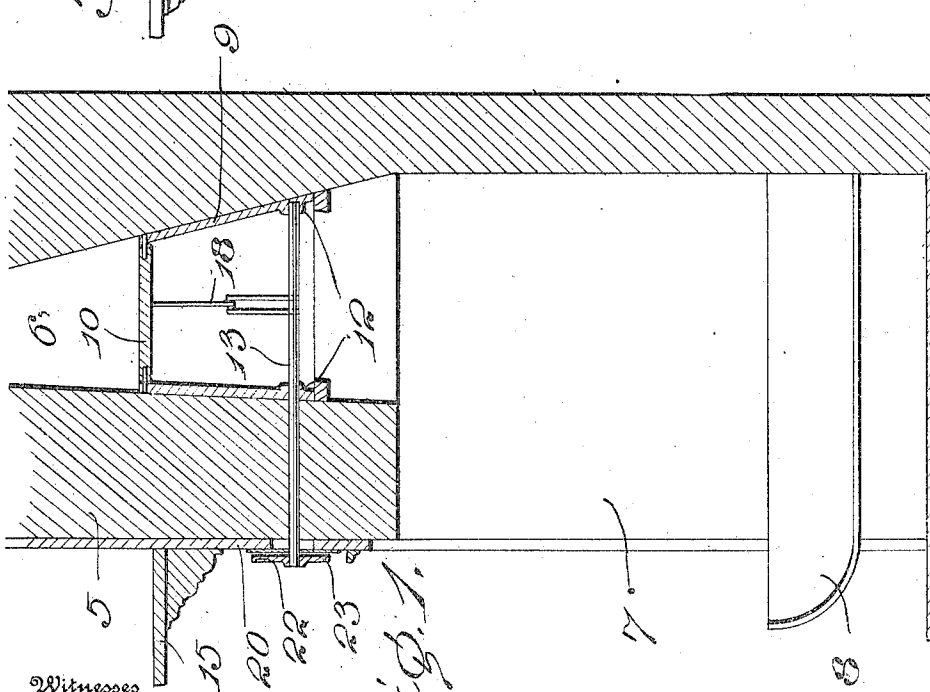
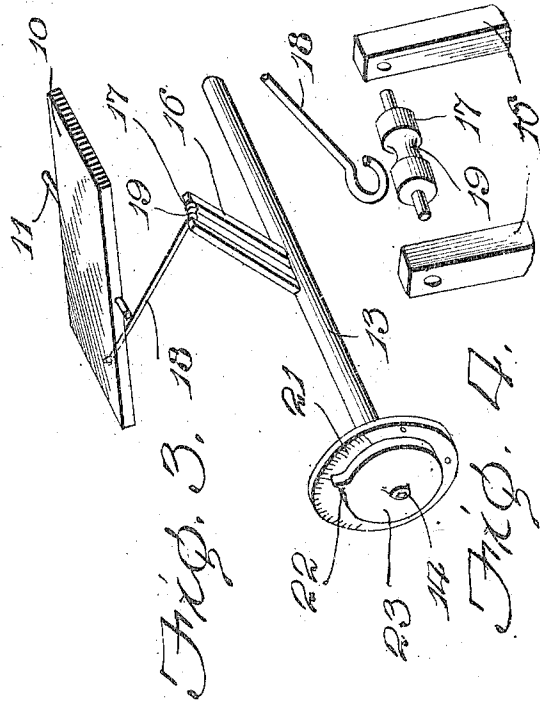


951,430.

Fig. 2.



Witnesses
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Fig. 1.

Inventor

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UNITED STATES PATENT OFFICE.

AUGUST TRARBAUGH, OF IOWA CITY, IOWA.

DRAFT-REGULATOR.

951,430.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed May 27, 1909. Serial No. 498,606.

To all whom it may concern:

Be it known that I, AUGUST TRARBAUGH, a citizen of the United States, residing at Iowa City, in the county of Johnson and State of Iowa, have invented certain new and useful Improvements in Draft-Regulators, of which the following is a specification.

This invention relates to draft regulators, and has for its object the provision of a comparatively simple and inexpensive device of this character especially designed for use in connection with open grates and by means of which the draft may be conveniently regulated by a person in the room.

A further object of the invention is to provide a draft regulator including a casing adapted to be positioned in the flue of a fire place and having a damper pivotally mounted for tilting movement therein so as to regulate the draft in the flue, and at the same time prevent the accumulation of soot and dust on the damper.

A further object is to provide an indicator operatively connected with the damper actuating rod for determining the position of said damper.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability, and general efficiency as well as to reduce the cost of manufacture.

Further objects and advantages will appear in the following descriptions, it being understood that various changes in form, combinations and minor details of construction may be resorted to within the scope of the appended claim.

For a full understanding of the invention and the merits thereof, and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a vertical sectional view of a fire place provided with a regulator or damper constructed in accordance with my invention; Fig. 2 is a front elevation of a portion of the same, the flue, casing and damper being shown in dotted lines; Fig. 3 is a perspective view of the damper and its associated parts detached; and Fig. 4 is an enlarged detail view of the angular arms of

the actuating rod showing the construction of the spacing block and manner of connecting the rod thereto.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved draft regulator forming the subject matter of the present invention is principally designed for use in connection with open grates, such as fire places and the like and by way of illustration is shown in connection with a fire place of the ordinary construction in which 5 designates the chimney breast and 6 the flue communicating with the combustion chamber 7 above the grate 8, as shown.

The device comprises a casing or housing 9, having converging side and end walls adapted to snugly fit the flue at the lower end thereof.

Pivotally mounted in the upper end of the casing 9 is a damper 10 having laterally extended trunnions 11 adapted to engage corresponding openings in the adjacent walls of the casing so as to permit free tilting movement of the damper thereby to regulate the draft through the flue.

Extending transversely across the lower portion of the casing 9 and journaled in suitable bearings 12 is an actuating rod 13, one end of which is projected through the chimney breast 5 and terminates in an angular head 14, preferably disposed beneath a mantel, 15 as shown.

Secured to or formed integral with the intermediate portion of the actuating rod 13 are spaced arms 16 preferably disposed at right angles to the plane of the actuating rod and having their free ends connected by a spacing block 17. The arms 16 are connected with the damper 10 by means of a rod or link 18, one end of which is pivotally connected with the adjacent end of the damper while the other end thereof is formed with an eye which enters a circumferential groove 19 formed in the spacing block 17 so that when the actuating rod 13 is rotated or partially rotated the damper 10 will be moved to open or closed position according to the direction of rotation of said rod.

Secured to the facing or tiling 20 of the fire place and immediately below the mantel

15 is a face plate 21 having a series of graduations formed thereon and adapted to register with an index or pointer 22 carried by a disk or finger piece 23. The finger piece 23 is provided with a socket for the angular terminal 14 of the actuating rod so that when the finger piece is rotated the index 22 will register with the graduations on the face plate 21, and thus enable the operator to determine the position of the damper.

By having the damper pivotally mounted in the casing or housing 9 and operated by an actuating rod extending through the chimney breast, the draft may be regulated by a person in the room while the pivotal movement of the damper effectually prevents the accumulation of dust and dirt on the damper or housing 9.

It will here be noted that the graduated plate 21 and disk 23 are disposed beneath the mantel 15 so as to be effectually housed and protected thereby.

While the device is shown and described in connection with a fire place it will of course be understood that the same may be used with equally good results in the draft flues of heating or cooking stoves or wher-

ever a device of this character is found necessary or desirable.

Having thus described the invention, what is claimed as new is:

The combination with a fire place including a flue, of a casing disposed within the flue and conforming to the shape thereof, a damper pivotally mounted in the upper portion of the casing and forming a closure for the latter, an actuating rod journaled in the lower portion of the casing and having one end thereof projecting through the adjacent wall of the flue, spaced arms secured to the rod, a spacing block connecting said arms and provided with a circumferential groove, and a rod having one end thereof pivotally connected with the adjacent end of the damper and its opposite end provided with an eye seated in the groove of the spacing block.

In testimony whereof I affix my signature in presence of two witnesses.

AUGUST TRARBAUGH. [L. S.]

Witnesses:

JOHN L. STEVENS,
THOS. EPENETER.