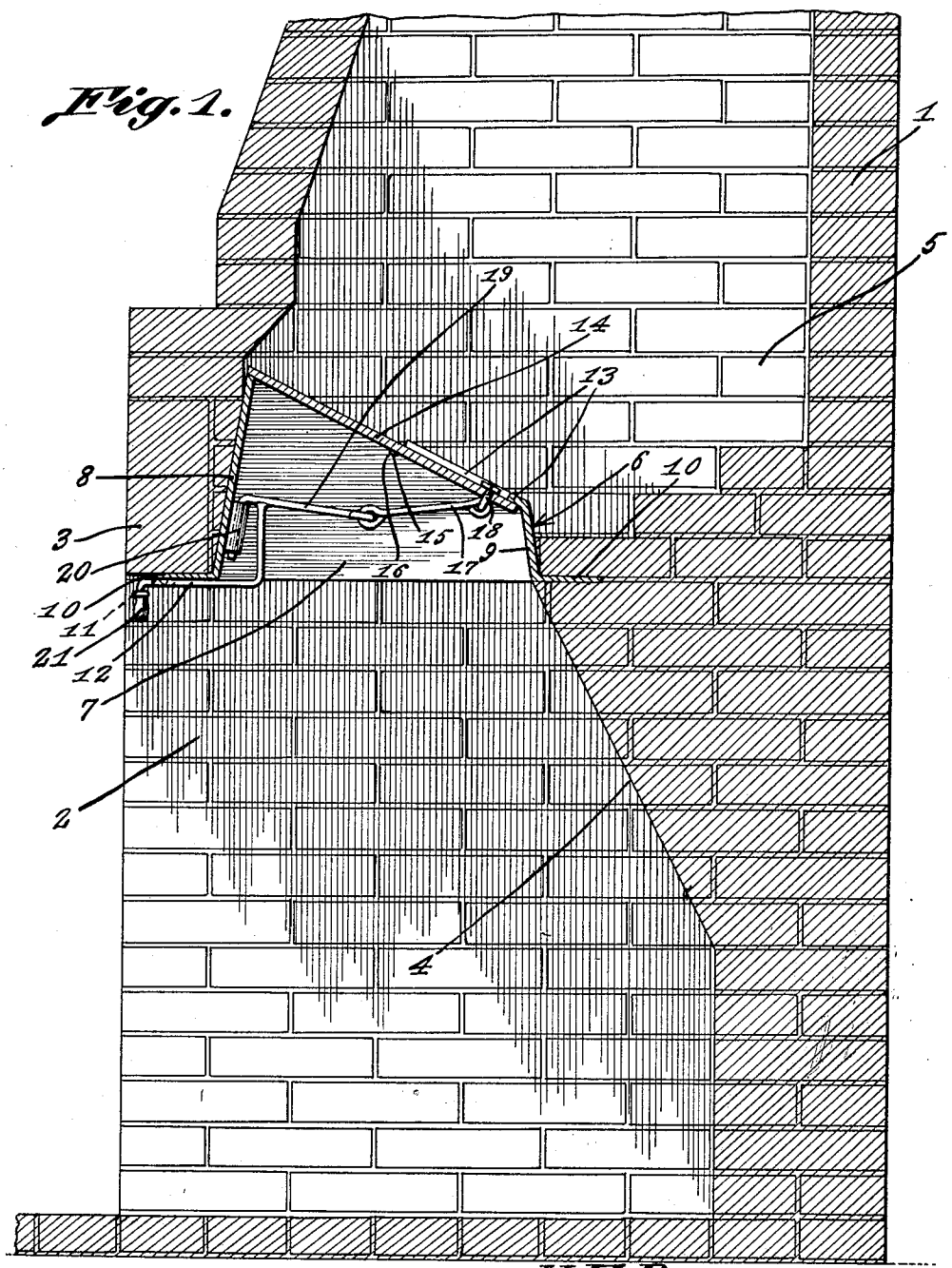
June 7, 1932. N. E. BARROWS 1,862,456

FIREPLACE DAMPER

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Fig. 1.



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FIREPLACE DAMPER

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Fig. 2.

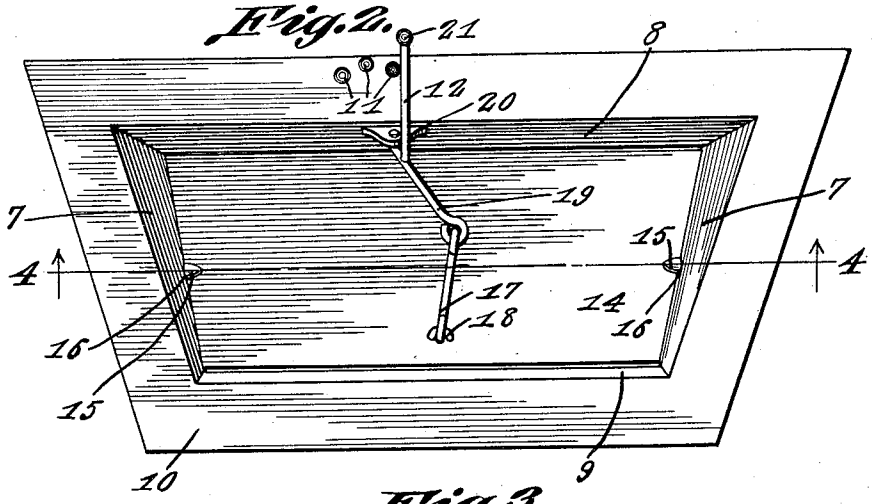


Fig. 3.

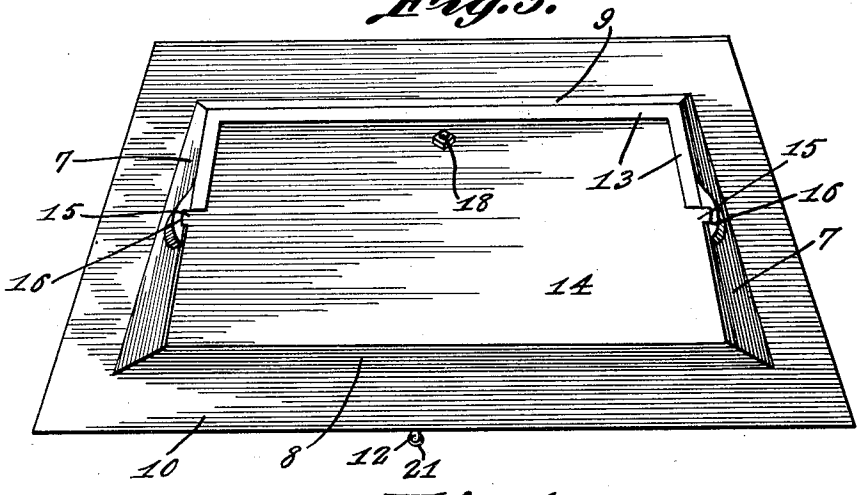
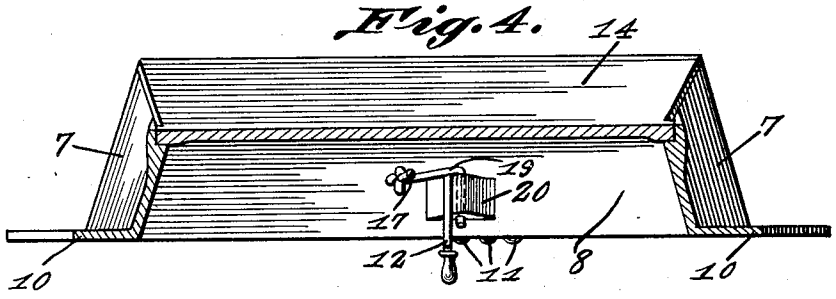


Fig. 4.



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Patented June 7, 1932 1,862,456

UNITED STATES PATENT OFFICE

NEALEY E. BARROWS, OF BANGOR, MAINE

FIREPLACE DAMPER

Application filed April 9, 1930. Serial No. 442,890.

This invention relates to new and useful improvements in dampers and has for its primary object the provision of a device of the above stated character especially adapted for controlling the draft to fire places and which may be easily and quickly regulated from the front of the fire place and is so constructed, that any of the moving parts may be removed when worn and replaced by new parts without interfering with the construction of the fire place.

Another object of this invention is the provision of a fire place damper of the above stated character, which will be simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view as will become more apparent as the description proceeds, the invention consists in certain novel features of construction, combination and arrangement of parts which will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a transverse sectional view illustrating a fire place with my invention applied thereto.

Figure 2 is a bottom plan view illustrating a damper constructed in accordance with my invention.

Figure 3 is a top plan view illustrating the same.

Figure 4 is a sectional view taken on the line 4—4 of Figure 2.

Referring in detail to the drawings, the numeral 1 indicates a chimney forming a part of an open fire place 2 which has the usual arch 3 and the upwardly and forwardly inclined rear wall 4 to terminate the fire place 2 in a restricted passage at the upper end thereof and which communicates with the usual flue 5 of the chimney 1. The restricted portion of the fire place has a damper 6 located therein and constructed in accordance with my invention and is adapted to regulate the draft from the flue 5 to the fire place.

The damper comprises integral side walls 7, front wall 8 and rear wall 9 and said walls have formed on their lower edges angularly related flanges 10 adapted to be embedded between some of the bricks or other elements forming the fire place as clearly shown in Figure 1 of the drawings. The flange 10 formed on the lower edge of the front wall 8 underlies the arch 3 and has formed thereon a plurality of stops or projections 11 to be engaged by an operating lever 12. The side wall 7 and rear wall 6 have formed on their upper edges stop flanges 13 to be engaged by a damper 14 when in a flue closing position. The damper 14 has trunnions 15 formed thereon received within bearing portions 16 formed on the side walls 7.

A link 17 has one end pivoted to an attaching element 18 while the other end is pivotally connected to an operating arm 19. The attaching element 18 is preferably in the form of a hook-shaped element having a screw threaded portion extending through the damper 14 and receiving thereon a nut. Each end of the link 17 is provided with eyes, one of which to receive the attaching element 18 while the other eye receives a correspondingly shaped eye formed on the end of the operating arm 19. The operating arm 19 is of substantially L-shape having one arm portion journaled in a bracket 20 secured to the inner face of the front wall 8. The operating lever 12 is of substantially L-shape and has the end of one arm portion formed on the operating arm 19 adjacent to its pivot while the other arm portion underlies the front flange 10 to engage the stops 11 and has its free end angularly related and has removably secured in any well known manner a finger grip or knob 21 constructed from any material suitable for the purpose and preferably of ornamental design.

In operation, by moving the lever 12 in one direction over the stops 11 the damper 14 will be swung towards an open position and may be held in various adjusted positions by the stops 11. The movement of the lever 12 in a reverse direction will close the damper 14, thus it will be seen that the draft from the flue to the fire place may be regulated as desired and also that this damper may be em-

ployed for ventilating purpose when there is no fire in the fire place.

In case any of the moving parts of the device become worn and it is desired to remove them from the device, the lever 12 is moved into a position to open the damper 14, when a person then may lift the damper upwardly to disengage the trunnions 15 from their bearings 16 and at the same time disengage the arm 19 from the bracket 20 freeing the operating means and the damper from the frame 6 whence they may be removed and repaired and again replaced in the frame in a manner similar to removing them from the frame.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim is:

A damper comprising a frame including integral side, front and rear walls, flanges formed on said walls and adapted to be embedded in the chimney of a fire place, a regulating member hinged to the side walls, a bearing formed on said front wall, a substantially L-shaped arm having one arm portion received by said bearing, a link pivotally connected to said regulating member adjacent the rear edge thereof and pivoted to the other arm portion of said L-shaped arm, a substantially L-shaped lever having the end of one arm portion formed on said L-shaped arm adjacent to the bearing thereof, a hand grip on the end of the other arm portion of the L-shaped lever, and spaced stops on the flange of the front wall to be engaged by the L-shaped lever for holding the regulating member in adjusted positions.

In testimony whereof I affix my signature.

NEALEY E. BARROWS.