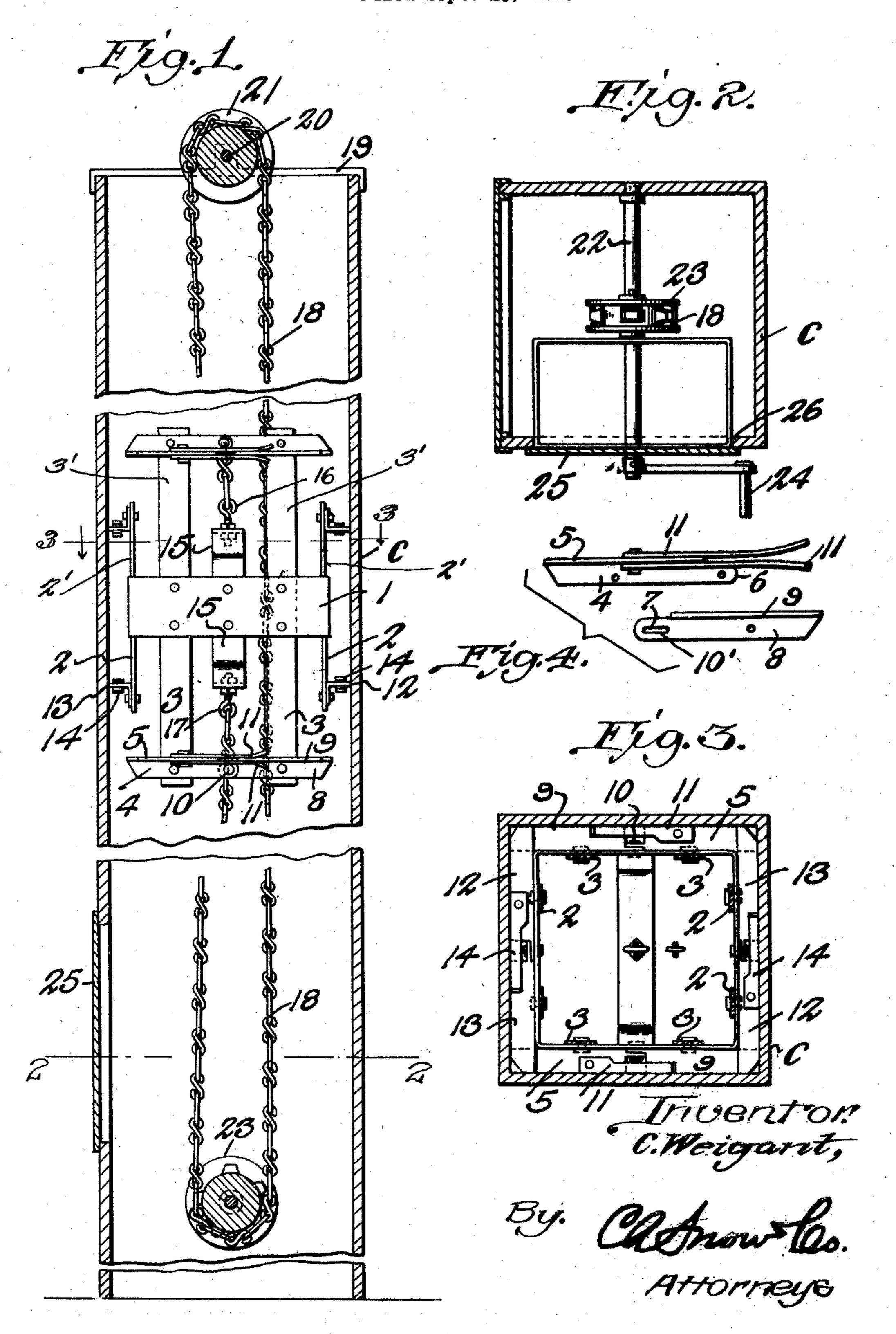
## C. WEIGANT

CHIMNEY CLEANER

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## UNITED STATES PATENT OFFICE

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## CHIMNEY CLEANER

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of chimneys, one of the objects being to pro- 10 one end portion of which is mounted to 5 for moving it longitudinally within the slot 10' in the portion 7. Thus it will be seen 55 rubbing along the inner surfaces of the chim- nected to the respective arms or hangers 3

10 engaging portions as to prevent them from posed sides of the blades 5 and project be- 60

A further object is to provide an appara- alinement. is tus of this type which can be installed. Pivotally connected to the shorter hang- 65 readily.

20 nation and arrangement of parts and in the 14 being similar to the springs 11. The outer 70 in the scope of what is claimed without de-used. The hangers 3 and 2 are resilient so as 75

In the accompanying drawing the preferred form of the invention has been shown.

In said drawing,

portion of a chimney showing the present the paths thereof. tuation.

from two opposed sides of which depend par- of sufficient length to extend from the top of posed sides depend longer hangers 3. To the thereof. lower end portion of one of the hangers 3 is A cap 19 is adapted to be placed on the uping flange 4 of a scraping blade 5 that ex-journaled a shaft 20 carrying a pulley 21 entends longitudinally of the flange. One end gaging and supporting the chain 18. of the flange is extended beyond one end of Arranged in the lower portion of the chimend of a flange 8 that is formed longitudi-sprocket and by rotating the shaft said chain

This invention relates to apparatus de- nally of a scraping blade 9. The lapping signed for use in cleaning the inner surfaces portions 6 and 7 are connected by a pivot pin vide a novel form of scraper having means have a slight play in an enlarged opening or chimney, said scraper having portions for that while the two blades are pivotally conney walls so as to dislodge incrustations. one cannot swing without also actuating the Another object is to so construct the wall- other. Spring strips 11 are connected to opbecoming hung on any protuberances that youd the ear 6 so as to receive between them might otherwise interfere with the proper the scraping blade 9. This spring serves to operation of the apparatus.

hold the two blades 5 and 9 normally in

ers 2 are scraping blades 12 and 13 connected With the foregoing and other objects in in the same manner as the blades 5 and 9 and view which will appear as the description also provided with springs 14 for holding the proceeds, the invention resides in the combi-blades 12 and 13 normally alined, the springs details of construction hereinafter described edges of the blades 12 and 13 and 5 and 9 are and claimed, it being understood that positioned where they will engage and scrape changes in the precise embodiment of the in- along the inner surfaces of the four walls of vention herein disclosed may be made with- the chimney C in which the apparatus is to be parting from the spirit of the invention. to be free to swing inwardly should the blades come against obstructions. Furthermore the blades are free to swing on their pivots against the action of the springs 11 should Figure 1 is a vertical section through a they come against unyielding projections in 30

improvements mounted therein ready for ac-Secured in the frame 1 is a connecting frame 15 that extends above and below the Figure 2 is a section on line 2—2, Figure 1. frame 1. To the upper end of this connecting Figure 3 is a section on line 3—3, Figure 1. frame there is attached a hook 16 and another Figure 4 is a side elevation of two scrap- hook 17 is attached to the lower end of the ing blades, the same being shown detached. frame 15. One end of a chain 18 or other Referring to the figures by characters of flexible device is secured to hook 16 while the reference, 1 designates an angular frame other end is secured to hook 17. This chain is allel hangers 2 while from the other two op- the chimney C to a point adjacent the bottom

pivotally connected the downwardly extend- per end of the chimney and on this cap is

the scraping blade to form an ear 6 and this ney C is a transverse shaft 22 to which is seear laps another ear 7 extending from one cured a sprocket 23. The chain engages this chimney.

The shaft can be provided with a crank

For the purpose of supporting shaft 22 a longitudinally within a chimney.

plate 25 can be employed for closing an open
4. In a chimney cleaning apparatus a ing 26 in the chimney, the shaft being journaled in this plate. The plate can be removably mounted in the opening so as to permit the apparatus to be withdrawn through the chain has been disconnected from pulley 21.

15 chain is actuated the frame 1 will be drawn upwardly or downwardly within the chimney. This will cause the scraping blades to travel along the inner surfaces of the chimney walls and remove therefrom any accu-20 mulations of soot or other foreign substances

to be taken from the chimney.

If, during the movement of the frame 1 in the chimney, one or more of the blades become caught in an obstruction, said blade or 25 blades will be free to shift relative to the hangers until the obstruction has been passed whereupon the springs 11 will return them to normal positions. The hangers 2 and 3 are also free to yield inwardly under these conditions.

For the purpose of increasing the efficiency of this device the parts 2 to 14 can be duplicated above frame 1 so that there will be upper and lower pairs of scraping blades 5 5 and 6 and upper and lower pairs of scraping blades 12 and 13, the upper blades being connected to the frame 1 by resilient members 3' and 2' respectively.

What is claimed is:

1. In a chimney cleaning apparatus connected yielding members, a blade pivotally mounted on each member, said blades being disposed in pairs, yielding means for holding the blades of each pair normally in aline-45 ment, and means for moving the members

and their blades within a chimney.

2. Chimney cleaning apparatus including resilient members disposed in pairs, blades pivotally connected to the respective mem-50 bers and disposed in pairs, yielding means for holding the blades of each pair normally in alinement, and means for moving the blades and their members back and forth within a chimney to scrape the walls thereof.

3. Chimney cleaning apparatus including a frame, a flexible actuating device connected at its ends to the frame and extending in opposite directions therefrom, hangers arranged in pairs and extending from the 60 frame, said hangers being resilient, a scraping blade pivotally connected to each hanger, the blades being disposed in pairs, a pivotal connection between the blades of each pair, yielding means for holding the blades of each 65 pair normally in alignment, the blades of

can be actuated so as to draw the scraping each pair being adapted to swing upwardly blades upwardly or downwardly within the against the action of said yielding means and relative to each other when engaging an obstruction, and means for actuating the flexi-

frame, upwardly and downwardly extending resilient members carried by the frame and disposed in pairs, blades pivotally connected 75 to the respective members and disposed in opening after it has been used and after the pairs, yielding means for holding the blades of each pair normally in alinement, and As has already been explained, when the means for moving the frame, members and blades back and forth within a chimney to go scrape the walls thereof.

> In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

CASPER WEIGANT.

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