(No Model.) 2 Sheets—Sheet 1.

C. P. JOHNSON.

ATTACHMENT FOR STOVES.

No. 451,935. Patented May 12, 1891.

Fig. 1.

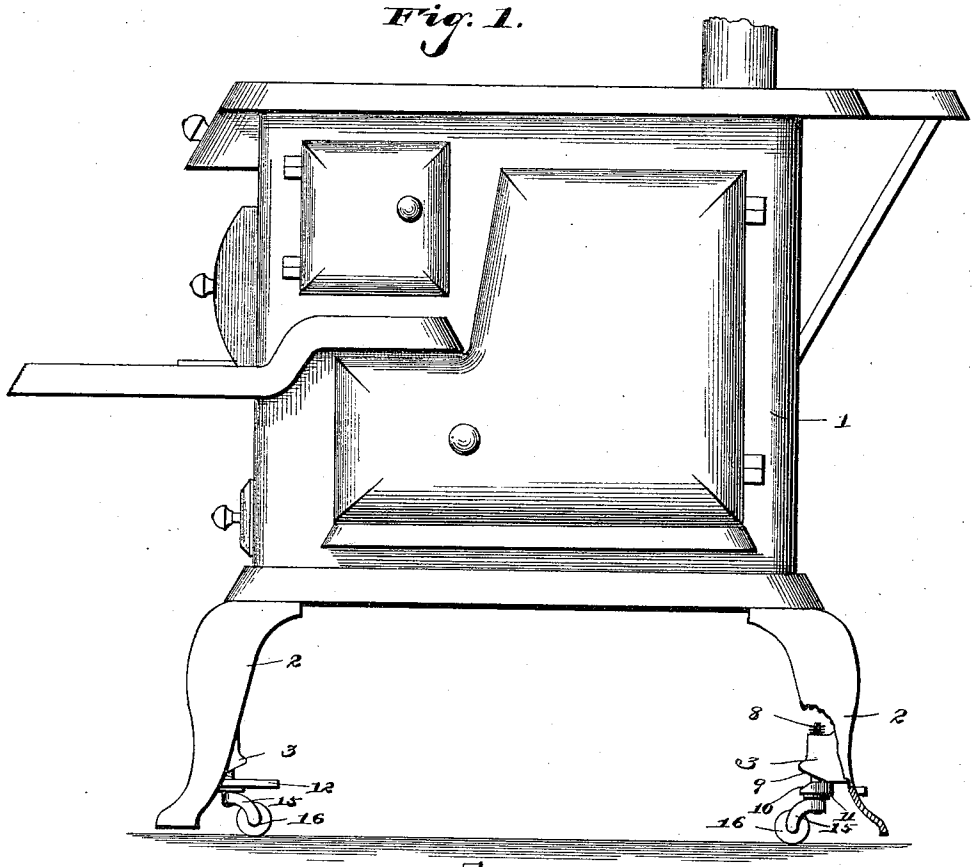
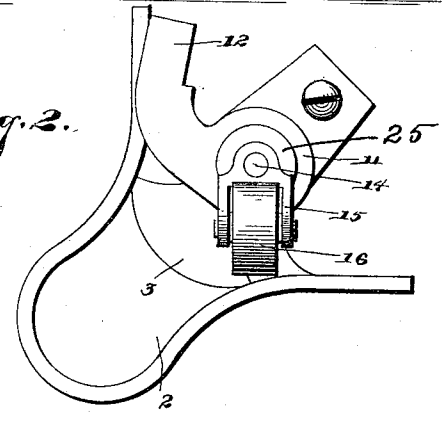


Fig. 2.



Witnesses

Samuel Ker.

Wm. Bagger.

Inventor

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By his Attorneys,

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

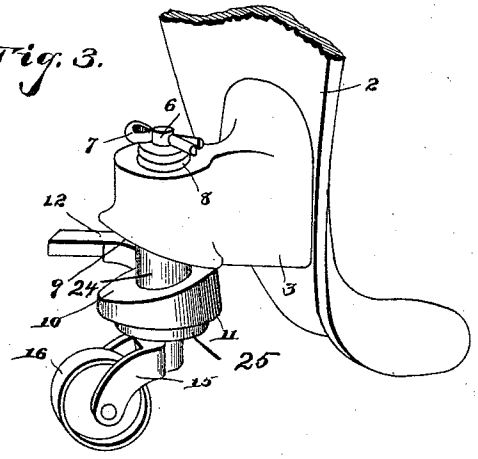


Fig. 4.

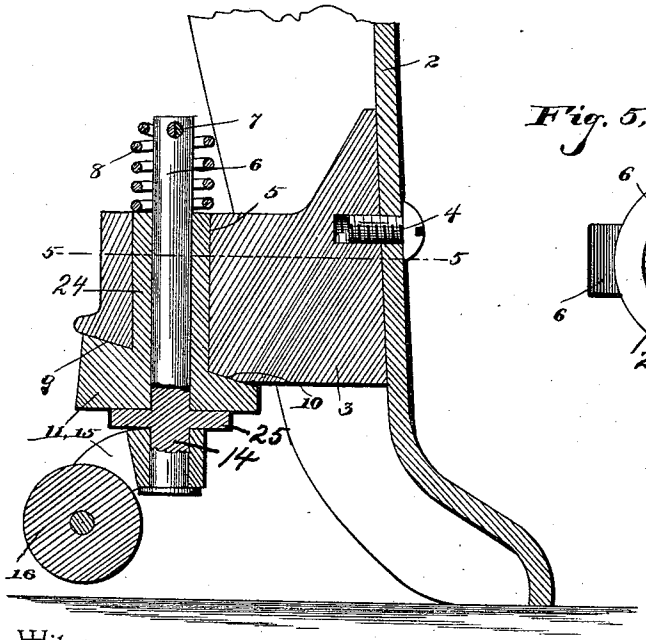
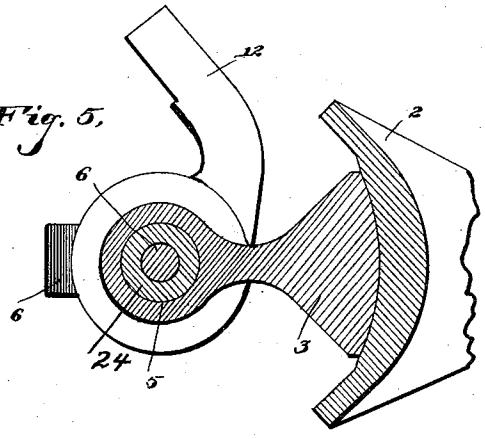


Fig. 5.



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By his Attorneys,

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UNITED STATES PATENT OFFICE.

CHESTER P. JOHNSON, OF AMSTERDAM, NEW YORK.

ATTACHMENT FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 451,935, dated May 12, 1891.

Application filed August 21, 1890. Serial No. 362,627. (No model.)

To all whom it may concern:

Be it known that I, CHESTER P. JOHNSON, a citizen of the United States, residing at Amsterdam, in the county of Montgomery and State of New York, have invented a new and useful Attachment for Stoves, of which the following is a specification.

This invention relates to an improved attachment for stoves, having for its object to provide means by which a stove may easily and conveniently be moved from one place to another.

The invention consists in the combination, with a stove, of casters attached to the legs of the same in such a manner that they may be lowered in their bearings, thus raising or lifting the stove and enabling it to be conveniently rolled or moved about upon the casters.

The detailed construction of the device which constitutes my invention will be hereinafter described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a side view of a stove equipped with my invention, parts having been broken away for the purpose of illustrating the construction more clearly. Fig. 2 is a bottom plan view of one of the legs of the stove equipped with my improved attachment. Fig. 3 is a detail perspective view of one of the casters, showing the same applied to a stove-leg in position for operation. Fig. 4 is a sectional view taken vertically through one of the legs having the caster applied thereto. Fig. 5 is a horizontal sectional view taken on the line 5 5 of Fig. 4.

Like numerals of reference indicate like parts in all the figures.

1 designates a stove, which may be of any construction, and which is provided with legs 2, which are likewise of ordinary well-known construction.

Upon the inner sides of the legs are mounted blocks or castings 3, which may either be formed integrally with the legs, or they may be attached thereto by means of screws or bolts 4, as shown in the drawings hereto annexed. This construction is of course preferable when my invention is to be applied to the legs of stoves already in use; but in future manufacture I will probably prefer to form the blocks 3 integrally with the legs. The said blocks 3 are provided with vertical perforations 5. The under sides of the blocks 3 are inclined or oblique, as will be seen at 9, to engage the correspondingly-oblique upper sides or faces 10 of disks 11, which are mounted securely upon the shanks 6. The said disks are provided with upwardly-extending sleeves 24, having bearings in the perforations 5 of the blocks 3, and with outwardly-extending curved arms or horns 12, which normally rest against one side of the stove-leg to which the device is attached, so as to be readily engaged by a suitably-constructed wrench or handle, by means of which the disk 11, having the sleeve 24, may be turned or partly rotated in its bearings in the block 3. The sleeve 24, extending upwardly from the disk 11, forms a bearing for a shank 6, provided at its upper end with a transverse key or pin 7, between which and the upper side of block 3 a coiled spring 8 is interposed, which serves to force the shank, together with the disk 11, which rests upon a flange 25 near its lower end, normally in an upward direction. The lower end of the shank 6 has a reduced spindle 14, upon which is swiveled a frame 15, carrying a caster-wheel 16 of ordinary construction.

In operation the parts are so arranged and located with relation to each other and to the stove-legs that when the shanks 6, carrying the caster-wheels, are raised to the highest point in their bearings the caster-wheels shall just clear the floor. When it is desired to move the stove, the sleeves 24 are one by one rotated in their bearings by means of the wrench or handle engaging the curved arms 12, thus causing the oblique-faced disks 11 to engage the oblique under sides of the blocks 3 and thereby forcing the shanks 6, carrying the wheels or casters, in a downward direction, or perhaps more properly jacking or lifting the stove-legs from contact with the floor. The stove may then, as is obvious, be easily rolled in any desired direction. When the stove has been placed in the desired position, the sleeves 24 are turned in a reverse direction, thus lowering the stove until the legs rest firmly upon the floor.

It is obvious that my herein-described invention is capable of being applied with equal advantage to heating and cooking stoves of all kinds that require to be occasionally moved.

I also desire it to be understood that I do not limit myself to the precise details of construction which have herein been shown and described, inasmuch as numerous minor changes and modifications may be made without materially departing from the spirit and scope of my invention by exercising ordinary mechanical skill and igenuity. I particularly reserve the right to form the supporting blocks or brackets 3 integrally with or separate from the stove-legs 2, as may be preferred.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a stove, the combination, with the legs, of the vertically-adjustable shanks having casters at their lower ends, and springs to force the said shanks normally in an upward direction, substantially as set forth.

2. In a stove, the combination, with the legs having suitable bearings provided with inclined or oblique lower faces, of the sleeves mounted in said bearings and having disks provided with inclined or oblique meeting faces, and the shanks mounted on said sleeves and disks and having casters at their lower ends, substantially as set forth.

3. The combination, with a stove-leg having a suitable bearing block or bracket with an inclined or oblique lower face, of a sleeve mounted in said bearing and having a disk provided with an inclined meeting face and an outwardly-extending curved arm or horn, a shank mounted in said sleeve, and a caster at the lower end of said shank, substantially as set forth.

4. The combination, with a stove-leg having a suitable bearing block or bracket, of a sleeve mounted in said block or bracket and having a disk provided with an inclined face bearing against the correspondingly-inclined lower side or face of the block or bracket and with an outwardly-extending curved arm or horn, a shank mounted in said sleeve, a spring arranged to force the said shank and sleeve normally in an upward direction, and a caster wheel at the lower end of said shank, substantially as set forth.

5. In a stove, the combination, with the legs, of the vertically-perforated bearing blocks or brackets upon the inner sides of said legs, the sleeves mounted in said bearings and having disks provided with outwardly-extending horns normally resting against the sides of the legs and with inclined meeting faces bearing against the correspondingly-inclined lower faces of the bearing-blocks, the shanks mounted in said sleeves and having flanges supporting the disks at the lower ends of the latter, the casters swiveled at the lower ends of said shanks, and the coiled springs mounted upon the upper ends of the latter between the transverse pins or keys and the upper sides of the bearing-blocks, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHESTER P. JOHNSON.

Witnesses:

IRVING LARRABEE,

O. RICHTER.