

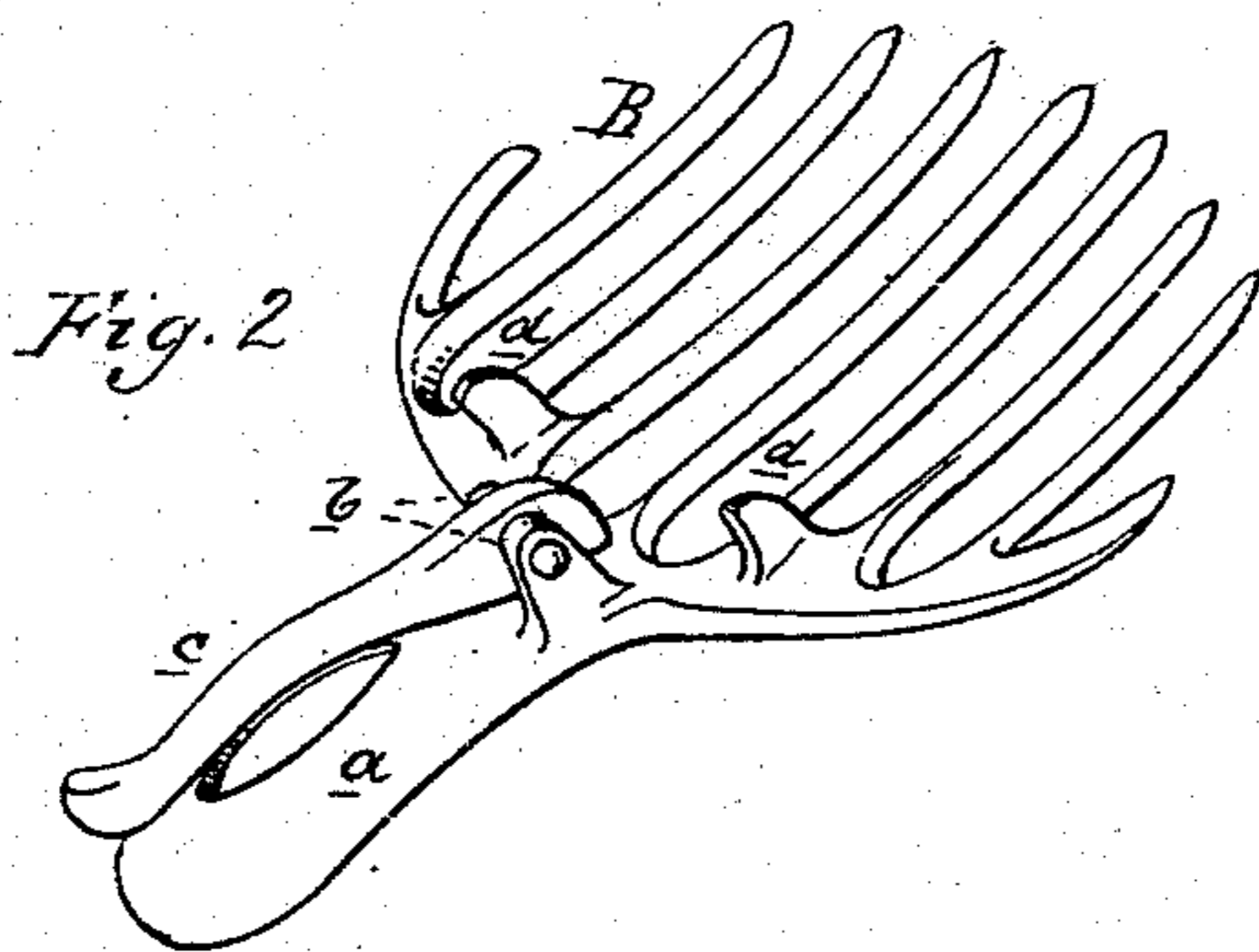
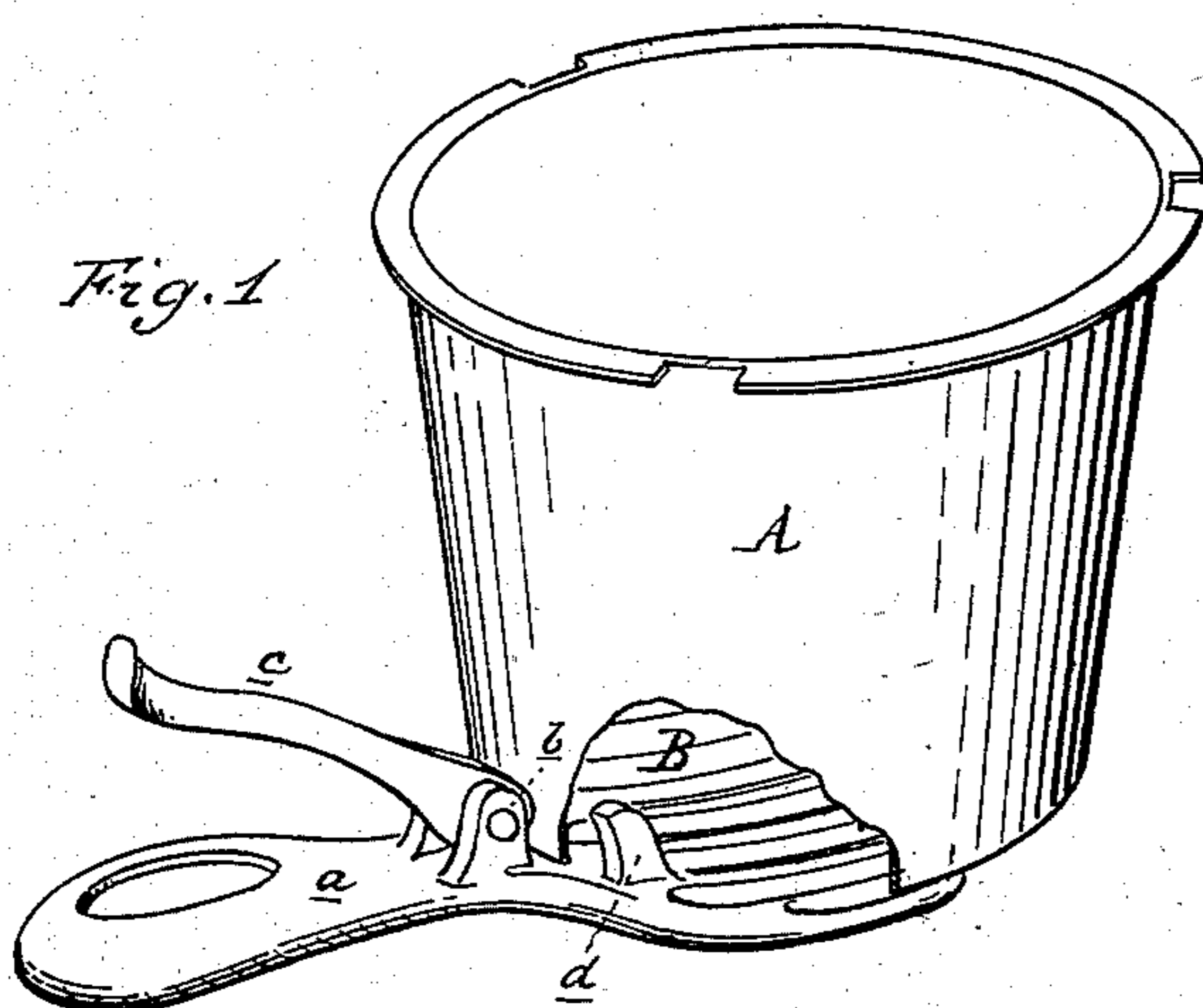
(No Model.)

G. W. HERRICK.

COAL FORK.

No. 272,137.

Patented Feb. 13, 1883.



*Attest:*  
*A. Barthel*  
*J. Sprague*

*Inventor:*  
*George W. Herrick*  
*by his Atty Phil. S. Sprague*

# UNITED STATES PATENT OFFICE.

GEORGE W. HERRICK, OF DETROIT, MICHIGAN, ASSIGNOR TO THE PENINSULAR STOVE COMPANY, OF SAME PLACE.

## COAL-FORK.

SPECIFICATION forming part of Letters Patent No. 272,137, dated February 13, 1883.

Application filed October 4, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. HERRICK, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful  
5 Improvements in Coal-Forks; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in devices for sustaining coal in the magazine of a stove when it becomes necessary to remove the debris of an exhausted fire from the grate and  
15 fire-pot below.

The invention consists in the peculiar construction of a manifold-tined fork and the method of securing the same in place at the bottom of the magazine.

20 Figure 1 is a perspective view of the magazine of a stove, detached and partially broken out to show the attachment of the fork thereto. Fig. 2 is a perspective view of the fork detached.

25 In the accompanying drawings, which form a part of this specification, A represents the magazine of a stove, such as is ordinarily employed in cylindrical stoves, adapted to burn coal at the base of a column. It occurs, by ac-  
30 cident or carelessness, that sometimes the fire upon the grate and in the fire-pot, which is always situated below the discharge end of the magazine, becomes extinguished, while the magazine remains full, or partially so, of un-  
35 consumed fuel.

B represents a fork, made preferably in the form shown, provided with a handle, *a*, upon which two ears, *b*, sustain a cam-lever, *c*. The fork is also provided with two resistance-lugs,  
40 *d*, as shown, although one of these lugs might possibly be omitted by placing one in the center of the fork and in line with the cam.

In practice, when it becomes necessary to sustain the column of coal in the magazine,  
45 the fork is inserted through the door of the

combustion-chamber at the bottom of the magazine through the coal, until the resistance-lugs pass the wall of the magazine, when slightly elevating the handle of the device carries such resistance-lugs against the inner wall  
50 of the magazine, and the cam then being thrown down toward the handle locks the device in place with sufficient force to sustain the weight of the coal remaining in the magazine. I am aware that a disk or shovel adapted  
55 to close the lower end of the magazine has been used for this purpose, such shovel being provided with hooks to engage with lugs cast upon the magazine; but difficulty has been found in the use of such shovel in forcing it  
60 through the coal and in securing it to the magazine after the shovel was in place. Hence, I do not claim any portion of that invention.

In place of the cam, its equivalents—like a wedge or screw—may be employed to compel  
65 the frictional resistance necessary to secure the fork to the bottom of the magazine without departing from the spirit of my invention.

I am aware of the Patents Nos. 148,885 and 225,597, and lay no claim to the devices there-  
70 in shown.

What I claim as my invention is—

1. A device adapted to retain coal in the cylinder, provided with a resistance lug or  
75 lugs constructed to enter the cylinder below its bottom and bear against the inner edge thereof, and a clamping device adapted to bear against the outside of said cylinder and hold the cylinder between the clamp and lugs, sub-  
80 stantially as described.

2. A fork provided with lugs *d d*, adapted to bear against the inside of the cylinder, and the cam-lever *c*, constructed to bear on the outside  
85 thereof, all constructed and arranged substantially as described, and for the purpose specified.

GEORGE W. HERRICK.

Witnesses:

H. S. SPRAGUE,

CHARLES J. HUNT.