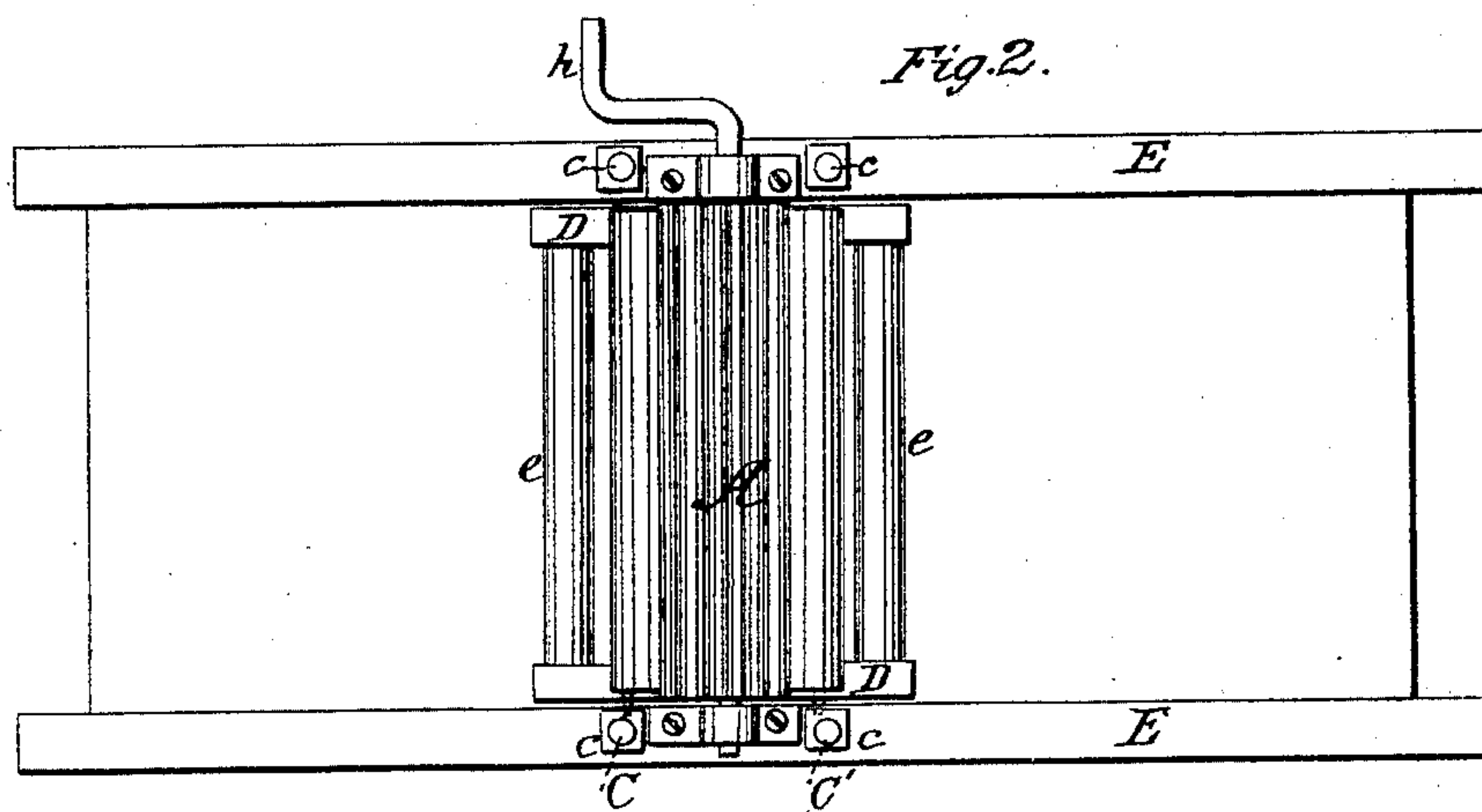
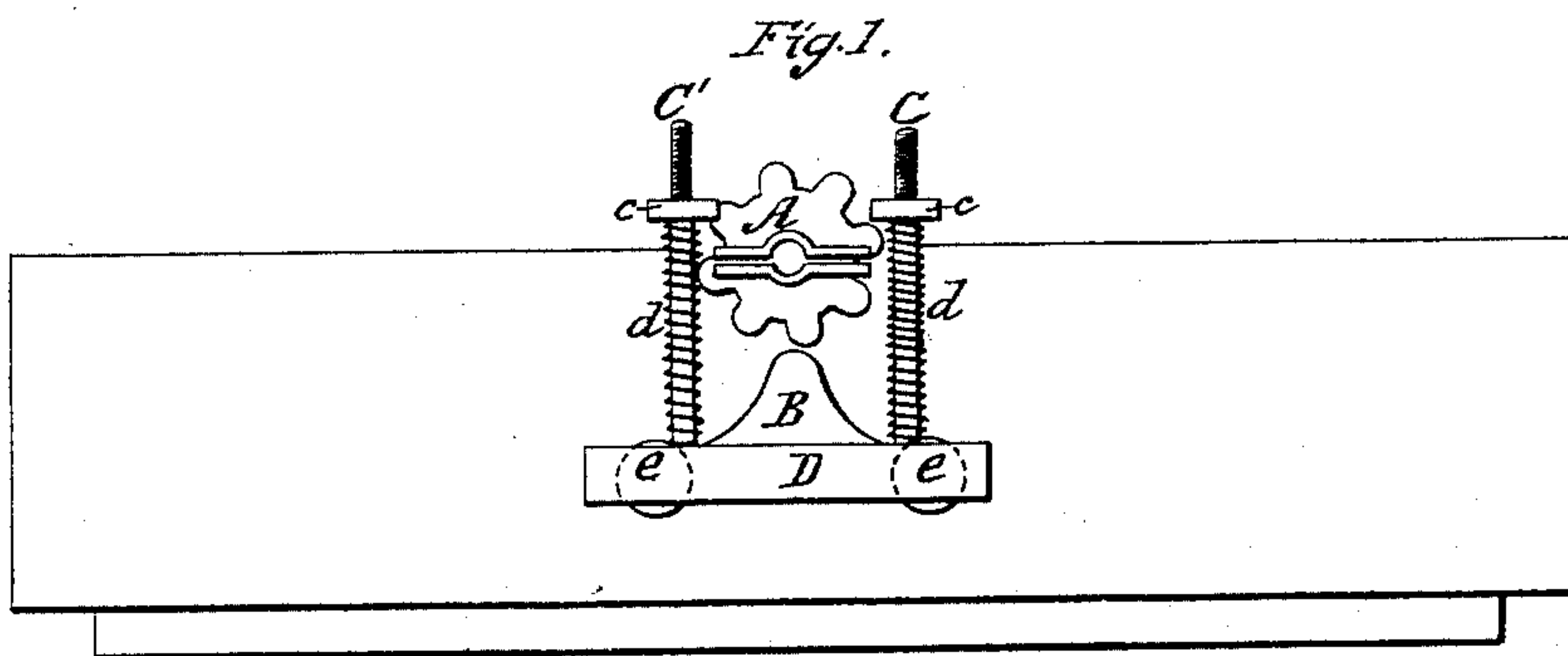


H. L. BRIDWELL.
Washing Machine.

No. 18,889.

Patented Dec. 22, 1857.



UNITED STATES PATENT OFFICE.

H. L. BRIDWELL, OF NEW ALBANY, INDIANA.

WASHING-MACHINE.

Specification of Letters Patent No. 18,889, dated December 22, 1857.

To all whom it may concern:

Be it known that I, HENRY L. BRIDWELL, of New Albany, Indiana, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the combination and arrangement of the corrugated cylinder with the single oscillating self adjusting knuckle, as will be hereinafter described.

In order that those skilled in the art may manufacture and use my machine, I will proceed to describe its construction and operation.

In the accompanying drawings making part of this specification, Figure 1 is a side elevation with the side of the machine removed, showing its internal arrangement. Fig. 2 is a plan view.

In Fig. 1, A, is a corrugated cylinder made and attached to the machine in any of the known ways.

B, is a single knuckle secured to the pieces marked (D).

(e, e) are rollers also attached to pieces D, as shown in Fig. 2.

C, C, are rods four in number, two on each side of the machine, said rods stand in a vertical position and are secured to the pieces D, D.

(d) are spiral springs which pass over rods C, C, one end of said springs operating against pieces D, D, while the other ends operate against nuts (c, c, c, c).

(c c) are nuts passing over a screw on

the upper ends of rods C C and serve to elevate or lower the pieces D, D, and consequently the knuckle D and rollers (e e).

E, in Fig. 2, is the frame of the machine and G is the handle attached to the corrugated roller for the purpose of operating it. It will be seen that by means of rods C C and nuts (c, c) the knuckle B may be brought into contact with the cylinder A, and pressing against it the knuckle will follow the corrugations of the cylinder, and the cylinder revolving will rub constantly against the knuckle and cause it to move up and down and also to oscillate slightly backward and forward. The clothes being put into the machine the rollers (e e) assist in carrying them both between and from the cylinder A and knuckle B. As the cylinder turns and the clothes pass through they are pressed and rubbed with a constantly vibrating or oscillating motion and are then very effectually cleansed of dirt or impurities.

The advantages derived from this pressing and rubbing are very great when accompanied with the oscillating and vibrating motion of the knuckle.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:

I claim the combination of the corrugated cylinder A, with the single oscillating, self adjusting knuckle B, where arranged in the manner herein set forth, and for the purpose described.

H. L. BRIDWELL.

Witnesses:

WILLIAM REAUGH,
A. W. L. JOCELYN.