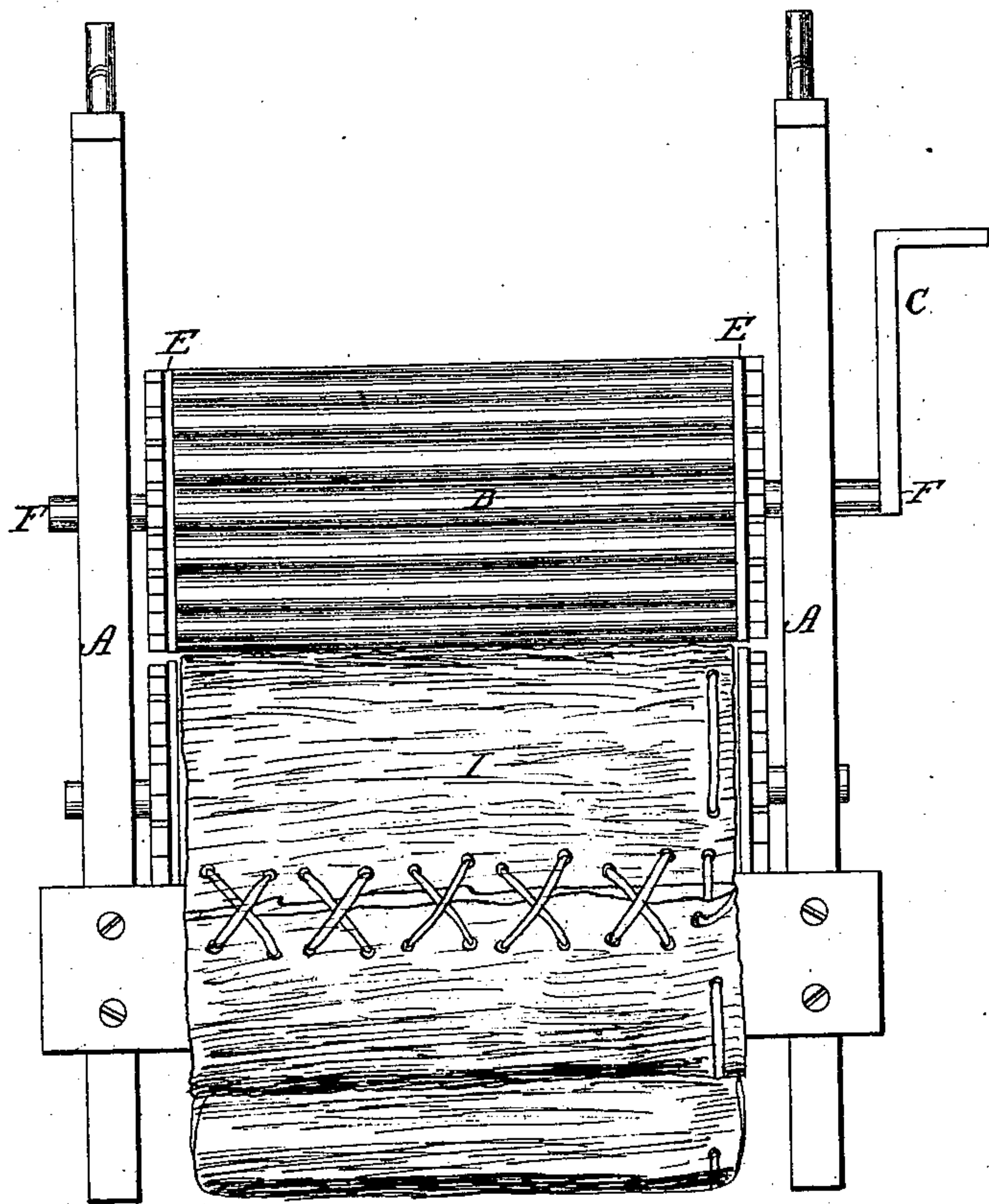


G. S. JONES & B. F. KIDD.  
Washing-Machine.

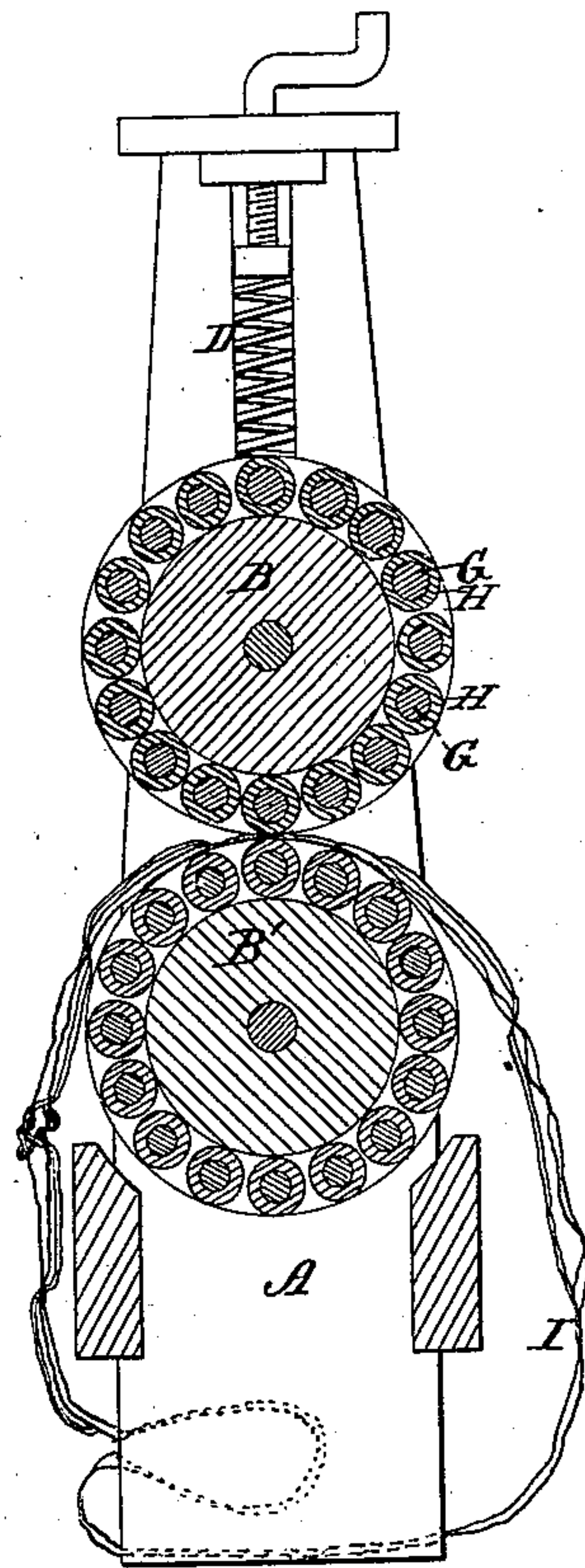
No. 164,004.

Patented June 1, 1875.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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*John C. Kemmon*

INVENTOR:

*G. S. Jones*  
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BY *Wm. T. C.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

GEORGE S. JONES AND BENJAMIN F. KIDD, OF RUSSELLVILLE, KENTUCKY.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 164,004, dated June 1, 1875; application filed April 21, 1875.

*To all whom it may concern:*

Be it known that we, GEORGE S. JONES and BENJAMIN F. KIDD, of Russellville, in the county of Logan and State of Kentucky, have invented a new and Improved Washing-Machine; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a side elevation; Fig. 2 a vertical transverse section.

This invention relates to certain improvements in washing-machines; and it consists in the peculiar construction of the rollers, which are formed of end plates connected by small detachable metallic rods that are passed through sections of rubber tubing, which said series of rubber-covered rods form the periphery of the rollers.

In the drawing, A represents a frame-work in which are journaled two rollers, B B', the top one of which is provided with a crank, C, and a pressure-regulator, D. Said rollers consist of circular end plates E attached to the shaft F, metallic rods G which are detachably fastened to the outer edge of the end plates and connect the same, and sections of rubber tubing H through which the rods are passed, the said rubber-covered rods forming the periphery of the washing-rollers.

We are aware of the fact that ridged rubber rolls have been heretofore used in washing-machines; but our roller is of a different construction and secures additional advantages, in that the rubber-covered rods may be turned when desirable, so as to present a new surface for the roller when the old one becomes softened or worn from use.

I is an endless or continuous bag which contains the clothes to be washed, which passes between the two rollers B B', and is suspended below in the soap-water.

By means of the above-described arrangement is constructed a most thorough and efficient washing-machine, and one which can equally as well be used as a wringer simply by removing the continuous bag from the water, and compressing the spiral spring of the regulator by means of the set-screw.

Having thus described our invention, what we claim as new is—

The washing-roller, consisting of the end plates E, the detachable rods G, and the sections of rubber tubing H, all combined and arranged substantially as and for the purpose described:

GEORGE S. JONES.  
BENJAMIN F. KIDD.

Witnesses:

B. LAWLESS, Sr.,  
GEO. F. LAWLESS.