S. M. Smith,

Washing Machine.

No. 108,646. Patented Oct. 25. 1870

Fig. 1

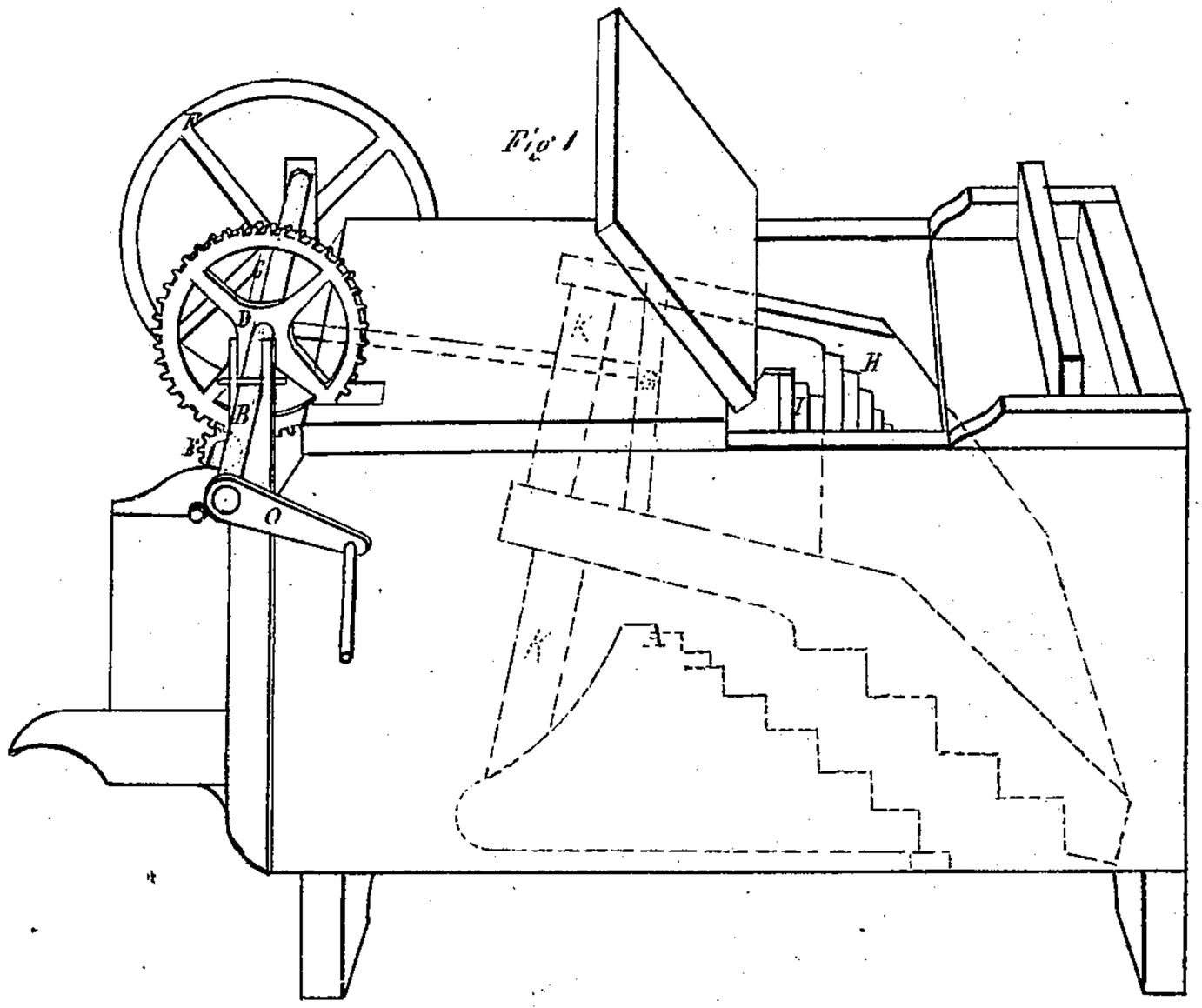
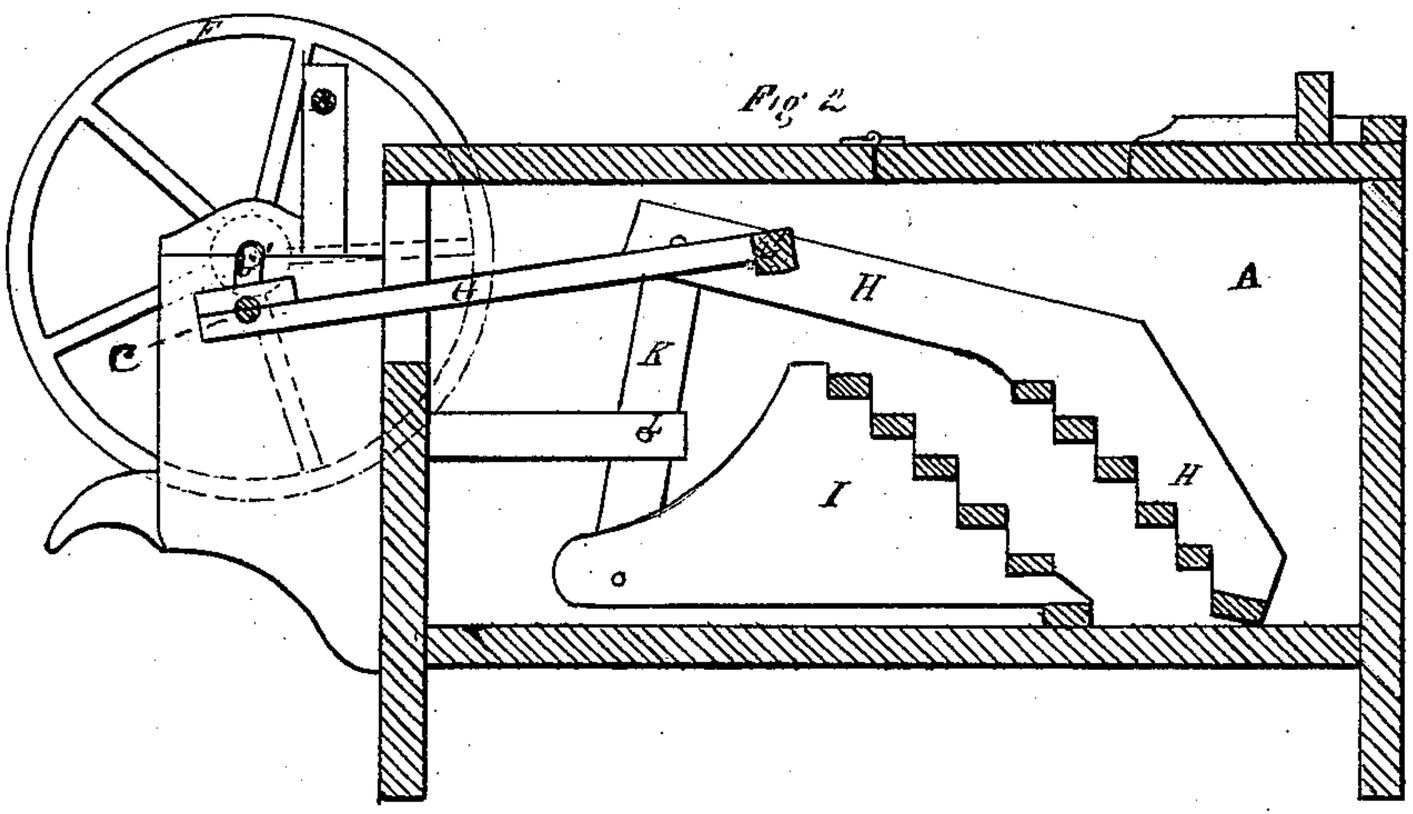


Fig. 2



Witnesses.

Wm. H. Kannan

Cornelius Hood

Inventor

Stephen M Smith

by Daniel Breed Att.

United States Patent Office.

STEPHEN M. SMITH, OF CANAL DOVER, OHIO.

Letters Patent No. 108,646, dated October 25, 1870.

IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, STEPHEN M. SMITH, of Canal Dover, county of Tuscarawas and State of Ohio, have invented a new and useful Improvement in Washing-Machines; and that the following is a full and exact description thereof, reference being had to the accompanying drawing and the letters of reference marked thereon.

My invention consists in a new construction, arrangement, and combination of devices for a box washing-machine.

In the accompanying drawing—

Figure 1 is a perspective view of my machine with the lid open, showing a part of the rubbers.

Figure 2 is a sectional view of the same, one side being removed.

I prefer to employ an oblong-box, A, at one end of which is attached a shaft, B, which carries a cog-wheel, D, gearing into a pinion, E, upon another shaft, C, provided with a balance-wheel, F.

This shaft C has a crank, C′, fig. 2, to which is attached a pitman, G, at the opposite end of which is a roller, G′, which is pivoted to the arms of the upper rubber, H.

Two levers, K, are pivoted, below their centers, to the sides of the box, at L, and at their ends to the arms of both rubbers, as seen in fig. 2.

The lower rubber, I, rides upon the bottom of the box, while the upper rubber floats free above the clothes, or may come down on the bottom of the box when small articles of clothing are being washed. This upper rubber may rise high enough to receive large articles, like bed-clothing, and yet it may work low enough to come very near the lower rubber in washing small articles.

In a working machine, the levers K may be made of wood, and, as the shafts and wheels are outside of the box, the clothing is not liable to come in contact with any metal to stain it with rust.

Usually I make the lower arms of the levers K one-half as long as the upper arms, in order to give the upper rubber the greater motion.

Motion is given to the machine by the crank O.

The clothes being placed between the rubbers, the lower rubber, in working, thrusts the under part of the clothes away, while the simultaneous stroke of the upper rubber brings the upper portion of the clothes in the opposite direction, and knocks the top down. Thus the clothes, in being washed, are continually rolled over and over, and also squeezed by the repeated strokes of the rubbers.

Having thus described my invention,

I claim—

The above-described arrangement and combination of the rubbers H and I, the levers K, pitman G, and shaft C, as set forth and shown.

STEPHEN M. SMITH.

Witnesses:

DANIEL BREED,

JOHN M. HILEMAN.