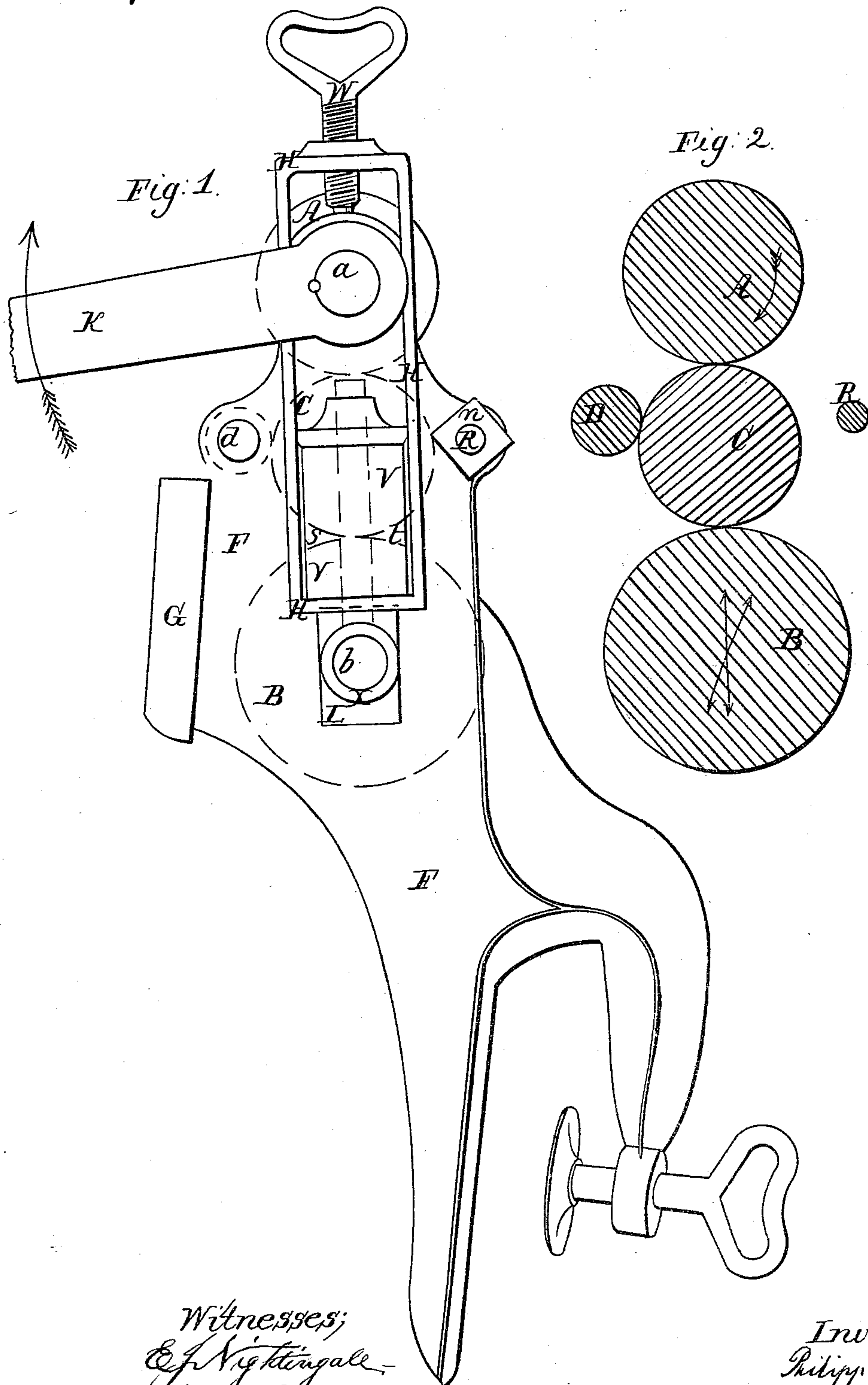


P. Cramer
Clothes Wringer.

Nº 94,082.

Patented Aug. 24, 1869.



Witnesses;
E. J. Nightingale
John Eddy

Inventor;
Philip Cramer

United States Patent Office.

PHILIPP CRAMER, OF BARRINGTON, RHODE ISLAND.

Letters Patent No. 94,082, dated August 24, 1869.

IMPROVEMENT IN CLOTHES-WRINGER.

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, PHILIPP CRAMER, of Barrington, in the county of Bristol, and State of Rhode Island, have invented a new and improved Mode of Wringing Wet Clothes; and I do hereby declare the following is a full and exact description thereof.

The nature of my invention consists in providing three rollers in a clothes-wringer, one above another, the upper and lower ones being made of wood, and the middle one of rubber.

The motive-power is applied to the upper roller, and the lower roller is pressed against the elastic central roller, by means of an elastic adjustable rubber or other spring.

The elastic roller, as represented in the Figure II, is kept in its place by a roller, D, and connecting-rod, R, or it may be placed upon an axle longitudinally through the centre, and the bearings held in slots in the frame.

To enable others to understand my invention, I will proceed to describe its construction and operation.

F represents the roller-frame of my clothes-wringer, made of iron or other metal, a similar corresponding piece being at the other end.

A and B represent wooden rollers, the upper one being made smooth, or of slightly uneven surface, to make sure of the rotary motion for the other rollers.

C represents a detached rubber roller, kept in its position by the rollers or rods D and R. Or the roller C may be kept in its position by passing longitudinally through its centre an iron rod or axle, the bearings of which play in slots of the roller-frame, allowing the rubber tube or roller to rotate upon or with the axle.

K represents the crank by which the rollers are set in motion.

R, a rod or roller, which shall also keep the frame from spreading apart.

n, the nut to hold the same.

G represents the wooden apron, over which the clothes pass in the operation of wringing between the rollers at s and out at t.

H H H represent the spring-frame or carrier, through the top of which passes vertically a thumb-screw, W, the end of which rests upon a lip of the roller-frame.

In the lower part of said spring-frame or carrier, rests a rubber or other elastic spring V.

X represents the box of the axle of the lower roller, and

L, a slot in the roller-frame, in which the axle may move up and down.

The box of the axle of the lower roller, on each side of the roller-frame, is extended by a spindle through a hole in the bottom of the spring-frame, and through the spring in the bottom of the spring-frame, and is keyed above a cap on the spring, by which arrangement the rollers may be more or less tightly pressed together by means of the thumb-screw.

I am aware that clothes-wringers are not new; but

What I claim as my invention, is—

The combination, in a clothes-wringer, of the upper operating-roller A with a central elastic roller, C, with its supporting-roller D and a lower roller, B, with an elastic adjustable bearing, spring-frame or carrier, with elastic spring and thumb-screw, arranged as shown and described.

PHILIPP CRAMER.

Witnesses:

E. J. NIGHTINGALE,
JOHN EDDY.