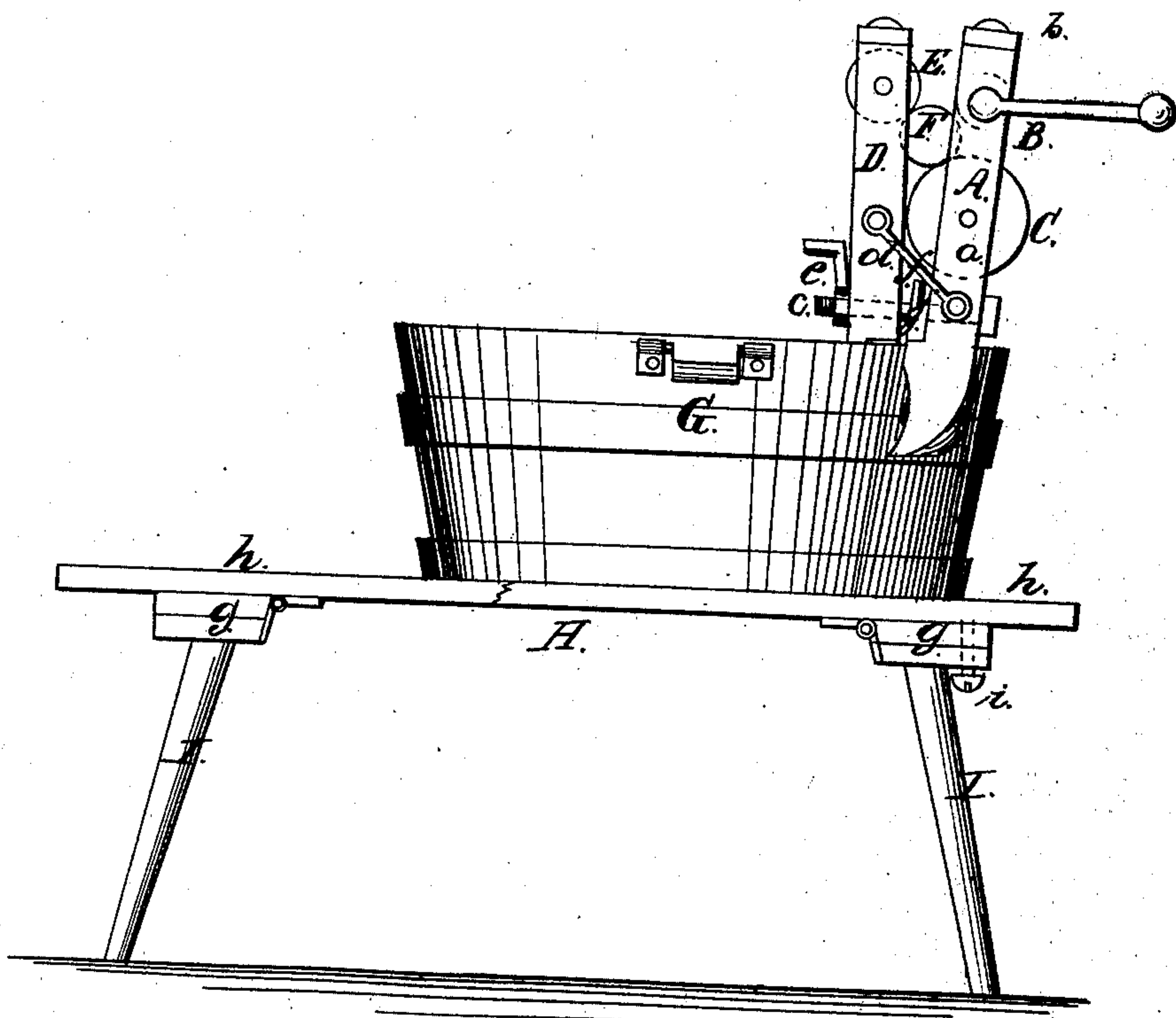


P. Cramer,

Wringer,

No 80,336,

Patented July 28, 1868.



Witnesses:

W. C. Aslikett
J. W. Morgan

Inventor:

P. Cramer
per Munn & Co
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United States Patent Office.

PHILIPP CRAMER, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 80,336, dated July 28, 1868.

IMPROVED 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 Providence, in the county of Providence, and State of Rhode Island, have invented a new and improved Clothes-Wringer; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a side view, partly in the section of my improved clothes-wringer.

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

A, in the drawing, represents a frame, consisting of two upright bars, *a*, and of one upper horizontal bar, *b*. In the frame A are the bearings of two horizontal rollers, B and C, of which the lower one, C, is larger than the other, as shown.

D is a frame, made similar to the frame A, and of similar size. In it are the bearings of a horizontal roller, E, as shown. All the rollers, B, C, and E, are made of wood, metal, or other suitable material, and may, if desired, be covered with elastic substance.

From one side of one of the frames, A D, project rods *c c* through the uprights of the other frame, as shown in the drawings, in which the rods *c* project from the frame A through the uprights *d* of the frame D. By means of nuts *e*, or some equivalents, fitted upon those portions of the rods *c* that project through the frame D, the two frames may be securely connected. Further connection may be formed by bars or rods *f f*, pivoted to both frames, as shown in fig. 1.

F represents a rod or cylindrical piece of India rubber or other elastic material. It is fitted loosely, that is, without being hung in bearings, between the rollers B, C, and E, as is clearly shown in fig. 2. It presses with equal pressure against the three rollers, and, as it is between the upper parts of the frame A, which it tends to force apart, it serves to force the lower ends of these frames together, and causes them to firmly clamp the edge of a tub or box, G.

The pressure will of course be increased or diminished according to the position of the nuts *e*, or their equivalents, on the rods *c*.

The garments or articles are passed between the rollers C and the elastic rod F, the latter, owing to its high degree of elasticity, yielding to all inequalities of thickness of said articles. A cheap and efficient wringer is thus produced.

j is an elastic scraper, fastened in the frame A, to clear the surface of the roller C.

I claim as new, and desire to secure by Letters Patent—

1. The combination of the frames A D, rollers B, C, E, and F, and rods *c c*, with each other, all made and operating substantially as herein shown and described, for the purpose specified.

2. The elastic scraper *j*, to clear the surface of the roller C, when arranged in combination with a wringer, made as set forth.

PHILIPP CRAMER.

Witnesses:

E. J. NIGHTINGALE,

A. H. CHAFFEE.