(No Model.)

F. W. BROOKS.

WRINGER.

No. 413,489. Patented Oct. 22, 1889.

Fig. 4.

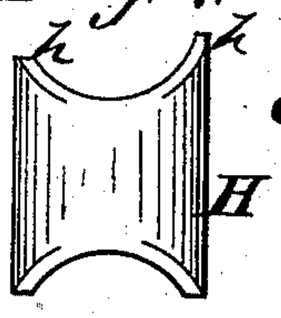

Fig. 5.

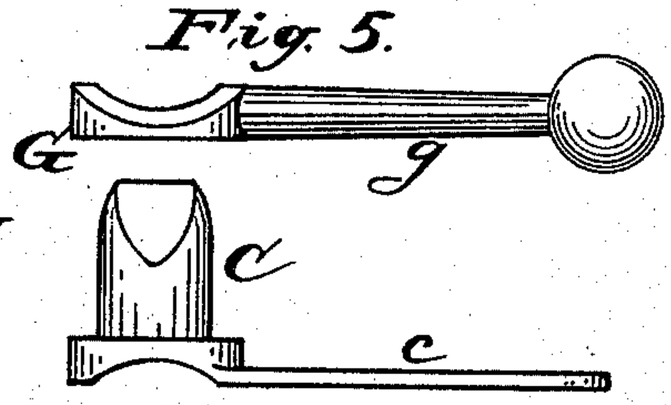

Fig. 3.

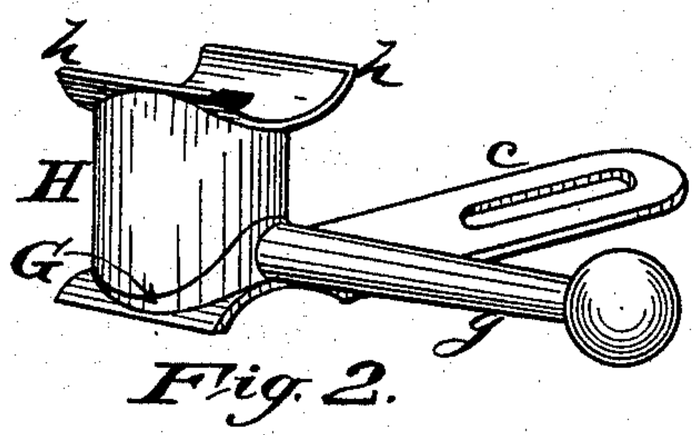

Fig. 2.

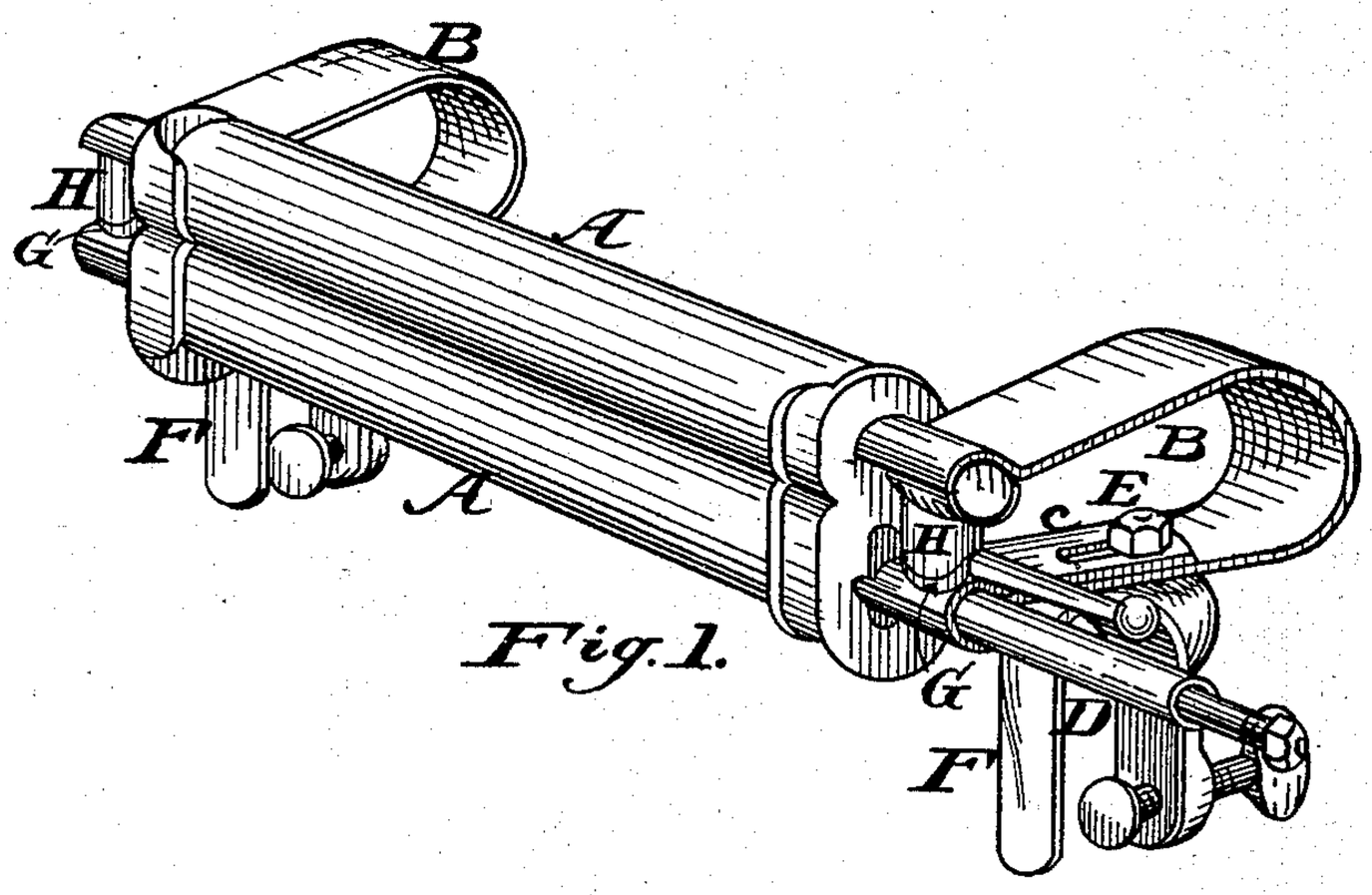

Fig. 1.

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UNITED STATES PATENT OFFICE.

FREDERICK W. BROOKS, OF CLEVELAND, OHIO, ASSIGNOR TO THE PEERLESS WRINGER AND MANUFACTURING COMPANY, OF SAME PLACE.

WRINGER.

SPECIFICATION forming part of Letters Patent No. 413,489, dated October 22, 1889.

Application filed March 11, 1889. Serial No. 302,917. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. BROOKS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Wringers, of which the following is a specification.

This invention relates to wringers, and has for its object to relieve the rubber rollers from the pressure of the springs when not required for use; and it consists in the combination, with the springs, of a cam-and-lever attachment by which the springs may be spread and held apart, constructed and operated substantially as hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a wringer having my improvement attached. Fig. 2 is a perspective view of my spreader as seen detached from the wringer. Figs. 3, 4, and 5, respectively, are detached views of the three parts comprising my spreader.

A A represent the two rubber rollers, and B B the two springs, of a wringer, having the clamps F F for securing it to a tub. The spreader consists of a slotted plate *c*, having a curved bearing portion fitted to lie on the shaft D of lower roller A, also having a pin C standing above said curved portion.

G is a cam-faced ring fitted to turn on said pin C, its bottom surface being flat and resting upon the flat surface of the plate surrounding said pin, and upon which it rides when turned, being provided with a handle *g* for turning it with.

H is a sleeve having a curved lower end conforming to the cam-face of the ring G and its top end provided with a curve and lips *h h*, designed to fit and bear in the under side of the journal of the upper roller A.

The upper part of the pin C is flattened on two sides a part of the distance down from its top, giving it a slightly-tapering form, and the base of the sleeve H is of a like form, the object of which is that as the cam-ring is turned for raising the sleeve there shall be no tendency of the sleeve to turn with the ring. This device is secured in place in the springs B by the nut E, which also secures the clamp F, as seen in Fig. 1.

From the foregoing the operation of this device is as follows: Turn the ring G by pushing the handle *g* around between the two parts of spring B. The cam-face of said ring, sliding under the curved end of the sleeve, lifts or raises it, thereby elongating the distance between the journals of the two rollers, and thus separating the rollers.

Having described my invention, I claim—

The combination, with spring B and journals of the rollers of a wringer, of the spreading device consisting of plate *c*, pin C, cam-ring G, having handle *g*, and sleeve H, provided with a cam-surface on its lower end constructed and applied to operate substantially as described, and for the purpose specified.

FREDERICK W. BROOKS.

Witnesses:

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