No. 864,397. PATENTED AUG. 27, 1907.

H. T. WHITE.

WRINGER.

APPLICATION FILED MAR. 22, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

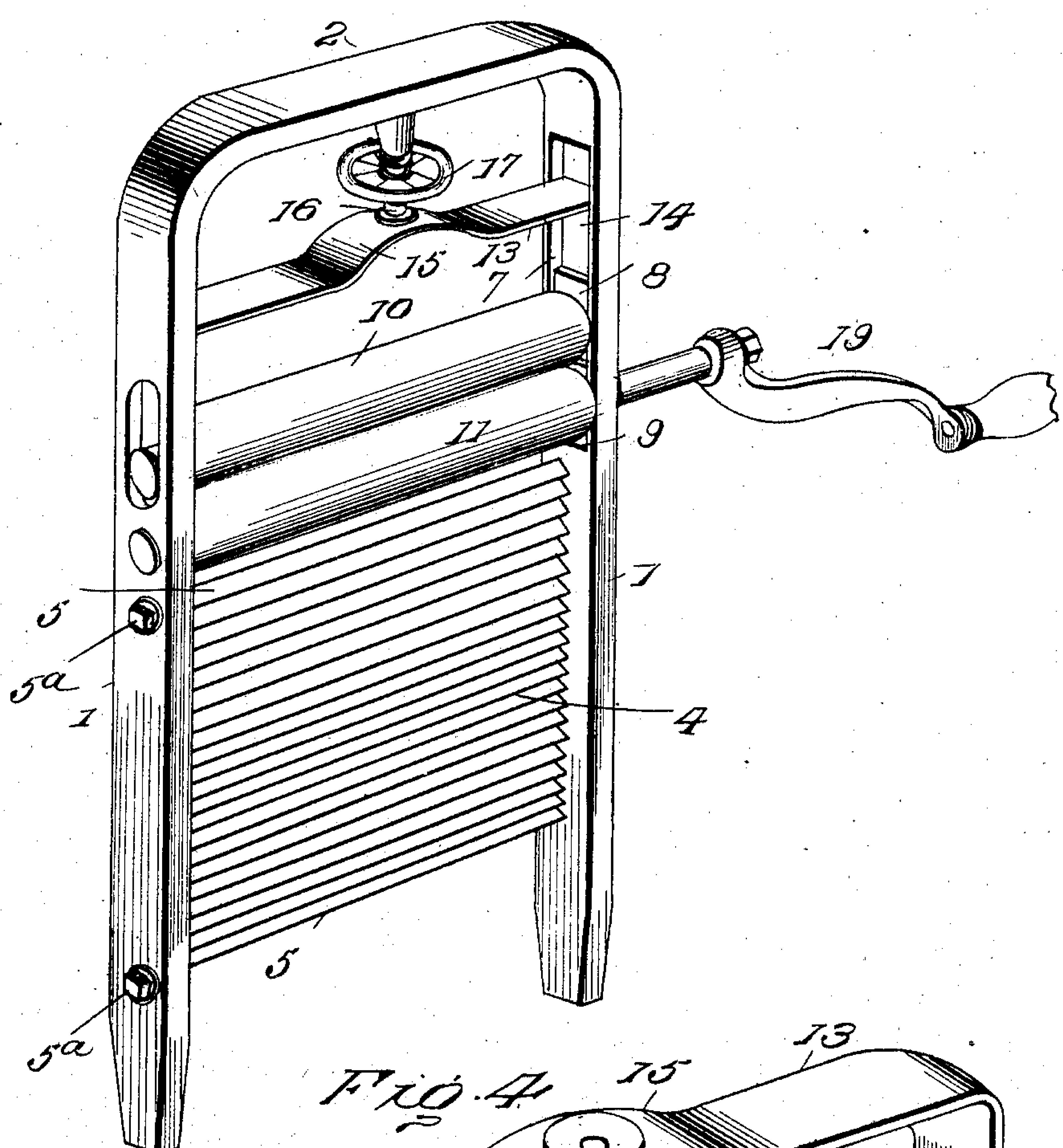
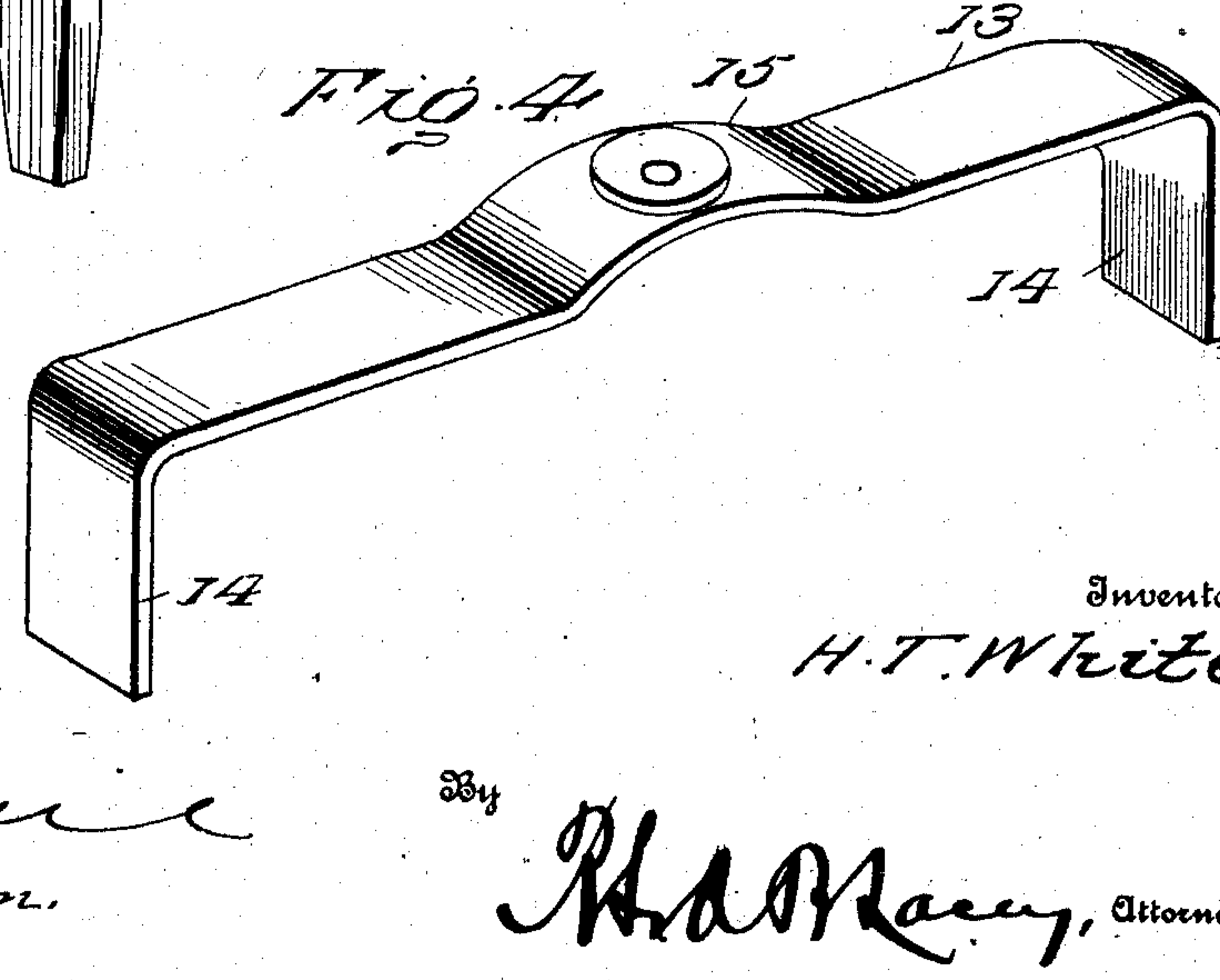


Fig. 4.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

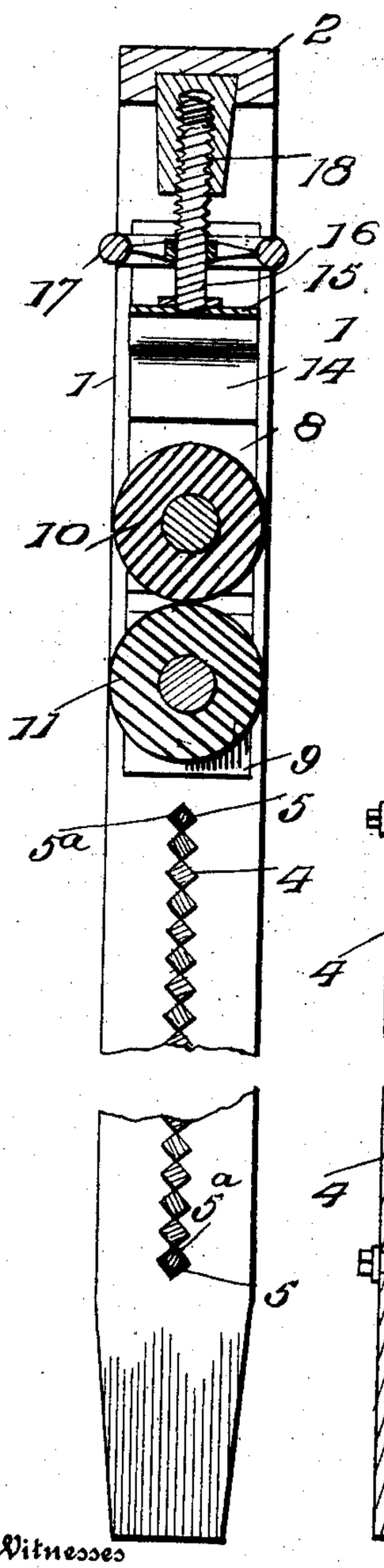
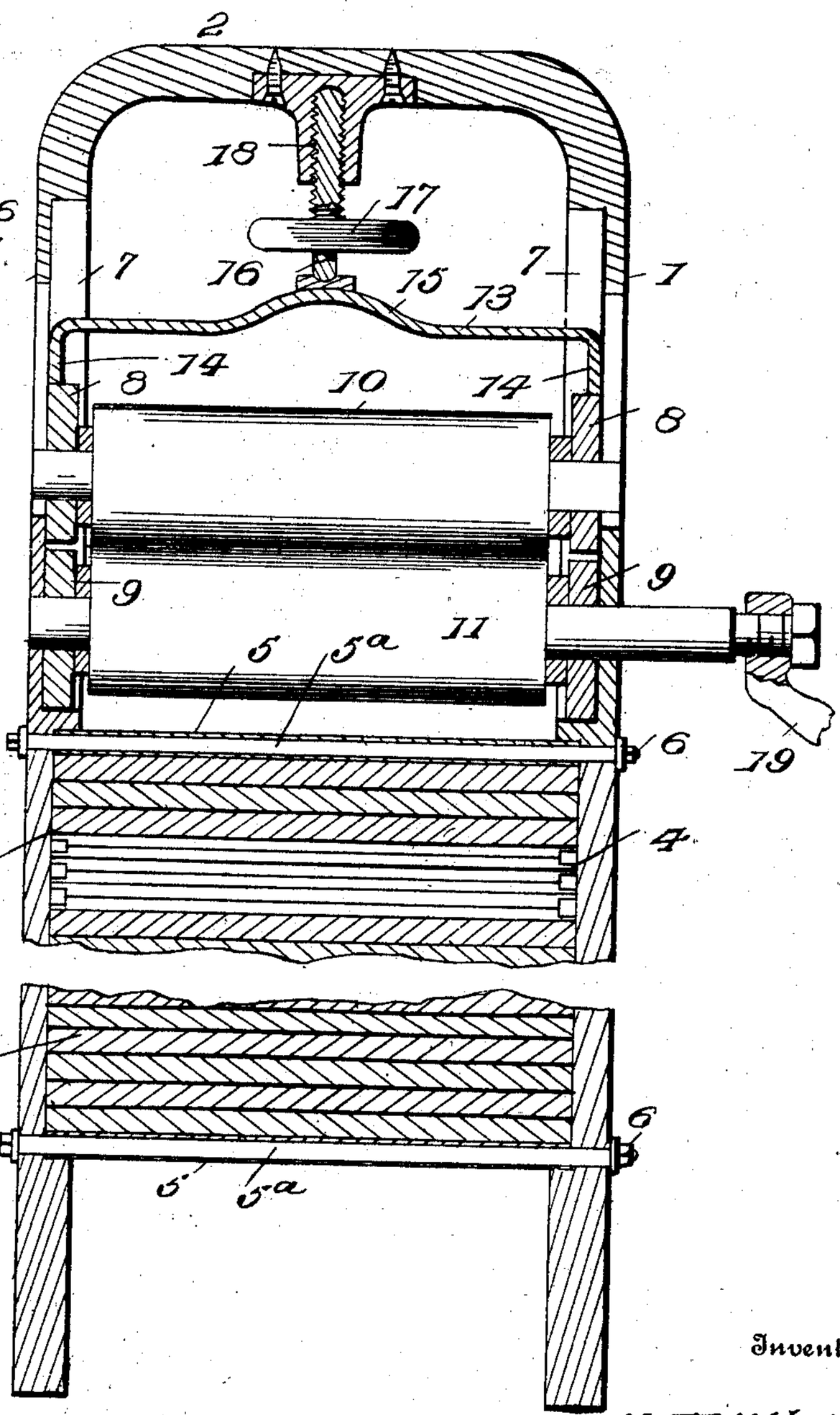


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY T. WHITE, OF MOUNT ORAB, OHIO.

WRINGER.

No. 864,397. Specification of Letters Patent. Patented Aug. 27, 1907.

Application filed March 22, 1906. Serial No. 307,516.

To all whom it may concern:

Be it known that I, HENRY T. WHITE, a citizen of the United States, residing at Mount Orab, in the county of Brown and State of Ohio, have invented certain new and useful Improvements in Wringers, of which the following is a specification.

This invention has for its object an improved construction of clothes wringer, which, in the present embodiment, is illustrated as embodied in the same structure with a washboard.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a wringer embodying the invention. Fig. 2 is a vertical sectional view of the device, bringing out clearly the mounting of the rubbing bars and the parts of the wringing device. Fig. 3 is a transverse vertical section. Fig. 4 is a detail perspective view of the arched spring which coacts with the wringing rollers.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

In the practical embodiment of the invention, a wringer embodying the same is preferably comprised of the usual sides 1, and top 2. The rubbing bars 4 are mounted between the sides 1. The rubbing bars 4 are preferably square in cross section to facilitate the cleansing of the clothes in the washing operation, and said bars are so attached to the washboard that the suds water may readily drain through the same as the clothes are rubbed against them in the practical use of the invention. The uppermost and lowermost of the rubbing bars are indicated at 5, said bars being of substantially the same form in cross section as the bars 4. The bars 5, however, are of hollow construction to receive the rods 5^a passing through said bars and through the sides 1. Nuts 6 applied to the outer ends of the rods 5^a are adapted to be screwed hard against the outer faces of the sides 1 to firmly hold the said sides together and subserve the rigidity of the structure materially.

Extending from a point near the uppermost of the bars 5, and formed in the inner faces of the sides 1 are suitable ways or guides 7, said ways constituting, virtually, longitudinal recesses receiving the bearings 8 and 9 of upper and lower rollers 10 and 11, respectively. The bearings 8 and 9 receive the journals of the rollers 10 and 11 and the bearings 9 are relatively fixed, while those indicated at 8 are relatively movable, to admit of variation of pressure of the rollers with respect to one another. The upper portions of the recesses 7 communicate with longitudinally disposed slots receiving the journals of the upper roller 10 and coöperating with the said recesses to guide the roller in its movements. The rollers 10 and 11 are the usual rubber rollers and the means for varying the pressure of the roller 10 against the roller 11 is arranged in the space between the top 2 of the washboard and the said roller 10. The said means comprises an arched spring 13, the vertical end portions 14 of which, bear against the upper sides of the bearings 8 of the roller 10. It will be observed that the angularly-disposed and downwardly extending ends 14 of the spring 13 operate in the ways 7, being prevented from lateral displacement from the bearings 8 by means of said ways. The horizontal portion of the arched spring 13 is bulged or curved upwardly at a point intermediate its ends, as shown at 15, the portion 15 being provided in its upper side with a recess or step bearing receiving the lower end of an adjusting spindle 16. The spindle 16 has a hand wheel 17 affixed thereto intermediate of its ends, the upper portion of said spindle being threaded and received in a threaded socket 18 forming a part of a plate attached to the under side of the top 2. The threaded connection established between the spindle 16 and the socket 18, is such that when said wheel 17 is turned in one direction, the spindle will be caused to move outwardly from the socket and exerting a pressure against the spring 13, will correspondingly increase the pressure of the roller 10 against the roller 11. The formation of the upper horizontal member of the spring 13, with respect to the portion 15 thereof, is advantageous in that the ends of said spring are caused to exert a vertical pressure upon the bearings 8. The pressure of the roller 10 may thus be very readily regulated. One of the journals of the roller 11 is extended outwardly from one of the sides 1 to receive a crank handle 19 by which the wringing device is operated in the customary way.

It will be noted that the device is of a very substantial structure and that the parts thereof as well as those comprised in the wringing mechanism, are very compactly arranged in order to give the best results so far as the wear incident to the service of the article is concerned.

Having thus described the invention, what is claimed as new is:

In a wringer, the combination of a pair of oppositely disposed side pieces having longitudinal recesses formed in the inner faces thereof, the upper portions of the recesses communicating with slots, a top connecting the side pieces, bearing blocks received within the lower portions of the recesses, a lower roller journaled in the said bearing blocks, a second set of bearing blocks slidably mounted in

the upper portions of the recesses, an upper roller journaled in the second set of bearings, the journals of the upper roller being received by the before mentioned slots, a transversely disposed spring connecting the side pieces, the ends of the spring being extended downwardly to engage the second set of bearing blocks and operating within the recesses, the middle portion of the spring being arched upwardly and provided with a step bearing, a socket carried by the before mentioned top, and a spindle threaded in the socket and engaging the step bearing to regulate the pressure of the spring upon the bearing blocks of the upper roller.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY T. WHITE. [L. S.]

Witnesses:
W. L. REMLEY,
G. V. HUGHES.