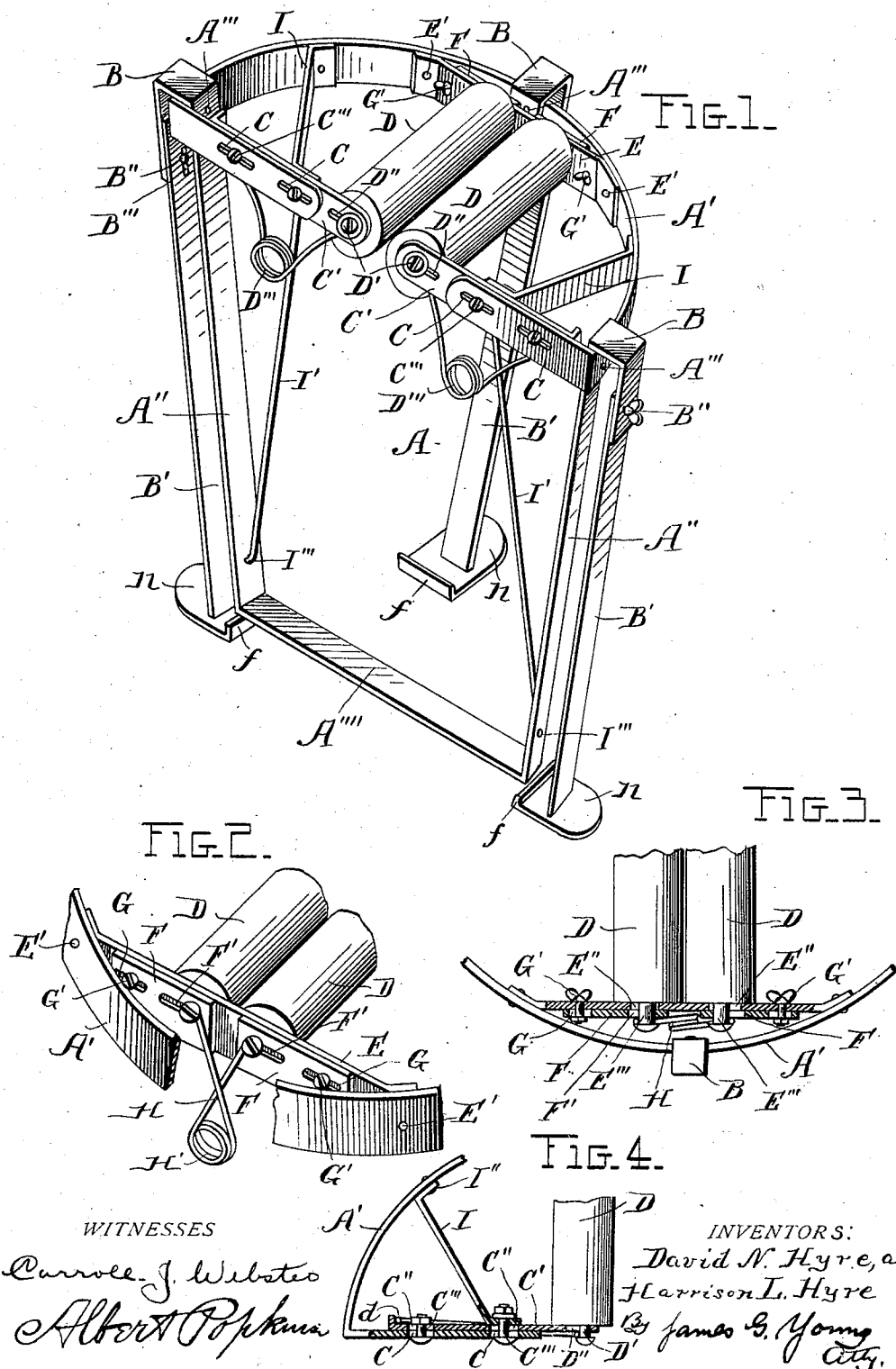


(No Model.)

D. N. & H. L. HYRE.
MOP WRINGER.

No. 581,222.

Patented Apr. 20, 1897.



UNITED STATES PATENT OFFICE.

DAVID N. HYRE, OF KANSAS CITY, MISSOURI, AND HARRISON L. HYRE, OF
KANSAS CITY, KANSAS.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 581,222, dated April 20, 1897.

Application filed February 15, 1896. Serial No. 579,453. (No model.)

To all whom it may concern:

Be it known that we, DAVID N. HYRE, residing at Kansas City, in the county of Jackson and State of Missouri, and HARRISON L. HYRE, residing at Kansas City, in the county of Wyandotte and State of Kansas, citizens of the United States, have invented a new and useful Mop-Wringer, of which the following is a specification.

This invention relates to a new and useful improvement in mop-wringers; and it consists in the construction and arrangement of parts hereinafter described, and definitely pointed out in the claims.

The aim and purpose of this invention are to construct a frame which can be detachably secured in the pail and on which the wringing-rolls can be adjustably and yieldingly secured. It is also the purpose to construct a device that can be cheaply manufactured and easily operated. These and other objects not hereinbefore mentioned are accomplished by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a perspective view of our improved mop-wringer. Fig. 2 is a detail view of the rear ends of the wringer-rolls and their supports, parts being broken away. Fig. 3 is a plan view of Fig. 2, parts being in section; and Fig. 4 is a plan view showing a portion of the front of one of the wringer-rolls, its support, and a portion of the frame, parts being in section.

In the drawings, A designates the frame for supporting the wringer-rolls. The frame consists of the semicircular portion A', adapted to fit within the sides of a pail, and the supports A'', secured to the portion A' by the bolts A'''. The supports pass within the pail and are connected at their lower ends by the cross-piece A''', which preferably rests upon the bottom of the pail. The upper ends of the supports are bent over, forming the hooks B, which are adapted to hook over the top edge of the pail.

B' designates clamps on the outside of the pail. These clamps are adjustably secured to the hooks B to allow for pails of varying height by means of the screw-bolts B'', pass-

ing through the slots B''' in the clamps. The lower ends of the clamps B' are provided with hooks f, engaging the lower edge of the pail, and the steps n for holding the pail down when the mop is wrung, as hereinafter described.

The ends of the semicircular portion A' of the frame are bent inward on a parallel line and are provided with the slots C.

C' designates bearing-plates for the forward end of the wringer-rolls. These bearing-plates are provided with the slots C'', registering with the slots C, as shown in Fig. 4.

C''' designates bolts securing the bearing-plates to the bent-in portion of the semicircular portion when the plates have been properly adjusted.

D designates the wringer-rolls. These rolls are arranged parallel a small distance apart. The forward ends of the wringer-rolls are provided with the projecting pins D', which pass through the slots D'' in the ends of the bearing-plates C', as shown in Fig. 4. The front ends of the rolls are yieldingly held together by means of the springs D''', which are secured to the pins D' and have their opposite ends secured to the bearing-plates at d, as shown in Fig. 4.

At the rear of the semicircular portion A' is secured a cross-piece E, secured to the semicircular portion by means of the bolts E'. This cross-piece is provided with the slots E'', through which pass pins E''', projecting from the rear ends of the rolls.

F designates the rear bearing-plates. These plates are provided with the slots F', registering with the slots E'' in the cross-piece and through which the pins E''' of the rollers pass. The opposite ends of the plates are provided with the slots G, and through these slots pass the screw-bolts G' for adjustably securing the bearing-plates to the cross-piece.

H designates a spring having the central coil H' and having its opposite end secured to the pins E''' of the rollers for yieldingly holding the rear ends of the rollers in position.

It will be seen from the above-described construction that the wringer-rolls can be adjusted in relation to their distance apart by means of the bearing-plates and that both ends of the rollers are yieldingly held in po-

sition in order that the mop can be readily pulled between them when the mop is to be wrung.

I designates cross-braces, and I' upright braces. The cross-braces are secured to the semicircular portion at I'', and the braces I' are secured to the supports at I'''. The meeting ends of these braces are secured together by the bolts C''', as shown in Fig. 4.

What we claim, and desire to secure by Letters Patent, is—

1. In a mop-wringer, the combination with the frame, of bearing-plates adjustably secured to the frame, rollers journaled in said plates and springs for forcing the rollers toward each other, substantially as described.

2. A mop-wringer having its frame provided with hooks to engage the top of a pail, in combination with clamps provided with hooks for engaging the bottom of the pail and with steps, said clamps being also provided with slots in their upper end by which they are adjustably secured to the hooks on the frame of the wringer by bolts, whereby the wringer can be removably secured to pails of varying height, substantially as described.

DAVID N. HYRE.
HARRISON L. HYRE.

Witnesses:

W. B. VINING,
J. W. TOBIN.