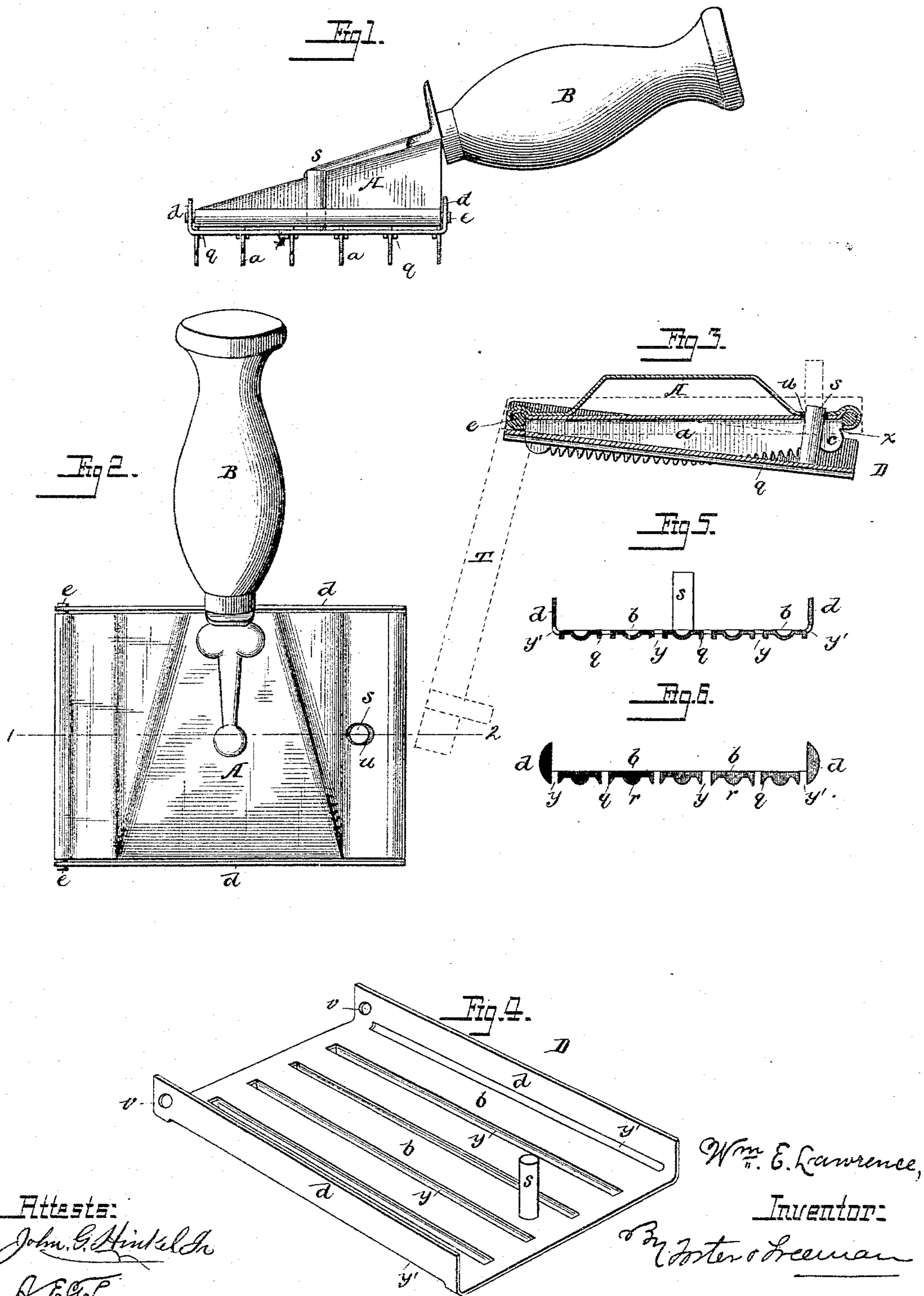


(No Model.)

W. E. LAWRENCE.
CURRY COMB.

No. 339,437.

Patented Apr. 6, 1886.



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UNITED STATES PATENT OFFICE.

WILLIAM E. LAWRENCE, OF NEW YORK, N. Y.

CURRY-COMB.

SPECIFICATION forming part of Letters Patent No. 339,437, dated April 6, 1886.

Application filed January 6, 1886. Serial No. 187,815. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. LAWRENCE, a citizen of the United States, and a resident of the city, county, and State of New York, have invented a new and useful Improvement in Curry - Combs, of which the following is a specification.

My invention relates to that class of curry-combs which are provided with cleaning attachments; and my invention consists in an attachment made from a single piece of metal with stiffening ribs and flanges, and in a mode of locking the scraper attachment to the comb, as fully set forth hereinafter, and as illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a curry-comb illustrating my improvement. Fig. 2 is a plan view; Fig. 3, a section on the line 1 2, Fig. 2; Fig. 4, a perspective view of the scraper attachment; Fig. 5, a transverse section of the scraper attachment; Fig. 6, a transverse section illustrating a modification.

A is the body of the comb, constructed in any suitable manner, the usual side handle, B, extending therefrom, and at the under side of the body are supported the usual comb-bars, *a*, each of which in the present instance has a rounded end, *c*, and above the latter a notch, *x*. With the comb-body is combined a scraper, D, consisting of a single piece of metal, having the general construction illustrated in Fig. 4—that is, there are parallel bars *b* arranged to leave intervening parallel slots *y*, adapted for the passage of the comb-bars, and the sides are turned or bent upward to form side flanges, *d d*, each so arranged as to form a scraper for the side of one of the outer bars, being separated from the adjacent scraper-bar by a narrow slot, *y'*. In each of the flanges *d d* is a hole, *v*, the two holes being in line with each other and adapted to receive the ends of one of the stiffening-rods, constituting the knocker at the edge of the comb, so that the scraper-plate D may swing upon the said rod as a pivot to the position shown in Fig. 1, or outward and away from the teeth of the comb-bars, so as to detach from the latter any adhering matters.

The slots *y* are of such length that the ends thereof will make contact with the rounded ends of the comb-bars, and the attachment between the scraper-frame and the comb-body is

sufficiently loose to yield to a slight extent as the bearing *t* at the end of the slot slides over the rounded edge *c*, but carries the scraper-frame laterally, so that the bearing *t* enters the notch *x*, the scraper-bar being thus normally held in position parallel to the face of the comb-body. By pressure upon the free end of the scraper-frame it will be carried past the rounded ends of the comb-bars, the connections of the frame yielding sufficiently to permit this movement, after which the comb-frame may be swung out to the position shown in dotted lines T, Fig. 3.

To facilitate the pushing of the scraper-frame downward over the retaining ends of the comb-bars, the scraper-frame is provided with a projection suitably arranged to be pressed upon by one of the fingers or thumb of the hand. Thus it may have a projecting pin, *s*, adapted to enter and extend through a hole, *u*, in the comb-body when the scraper-frame is in the position shown in Fig. 1, when it will be in position to be readily pressed upon by the thumb, the frame being thereby pushed downward and disengaged from the locking edges of the comb-bars.

The scraper-frame D may be of malleable or cast metal, and I prefer to provide it with downwardly-projecting flanges *q* at opposite sides of the slots *y*, and with longitudinal ribs *r* extending along the centers of the scraper-bars *b*, which ribs may be formed by stamping the parts to the shape shown in Fig. 5, when the scraper-plate is of malleable metal, or by casting it with longitudinal projections when it is formed of cast metal, as shown in Fig. 6.

It will be seen that the side ribs, *d*, bent or arranged at right angles to the scraper-plate, not only serve as scrapers for the end comb-bars without adding greatly to the weight of the comb, but also impart great strength and rigidity to the comb-plate, so that the latter can be made without the use of any stiffening-frame, which adds greatly to the cost of construction. It will further be seen that the scraper-frame consisting of a slotted plate with stiffening-ribs and perforated side flanges may be readily applied to ordinary combs without altering the construction of the latter.

While I have described the locking of the scraper-frame to the comb-frame by providing

the comb-bars with rounded projecting ends, and with notches above the latter to receive bearings upon the scraper-frame, in connection with a scraper-frame of peculiar construction, it will be obvious that this mode of locking may be used in connection with scraper-frames differently made.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

1. The combination, in a curry-comb, of comb-bars, having rounded ends and notches *x*, and a scraper-plate hinged to the body, and with slots *y* and bearings arranged to make contact with the rounded ends of the comb-bars, substantially as set forth.

2. The combination, in a curry-comb, of comb-bars, having rounded ends and notches, and a hinged and slotted scraper-plate pro-

vided with a projection, *s*, substantially as and for the purpose set forth.

3. The combination, with the body of a curry-comb provided with comb-bars, of a scraper-plate hinged to said body and having scraper-bars *b*, intervening slots *y*, and side flanges, *d*, at right angles to the body of the plate, arranged to move close to the outer comb-bars, and separated from the adjacent blades *b* by slots *y'*, the edges of the scraper-bars moving close to each side of each comb-bar, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM E. LAWRENCE.

Witnesses:

JNO. D. LAWRENCE,
WM. H. WOODHULL.