(No Model.)

I. O. DAY.

CURRYCOMB.

No. 591,074. Patented Oct. 5, 1897.

Fig. 1.

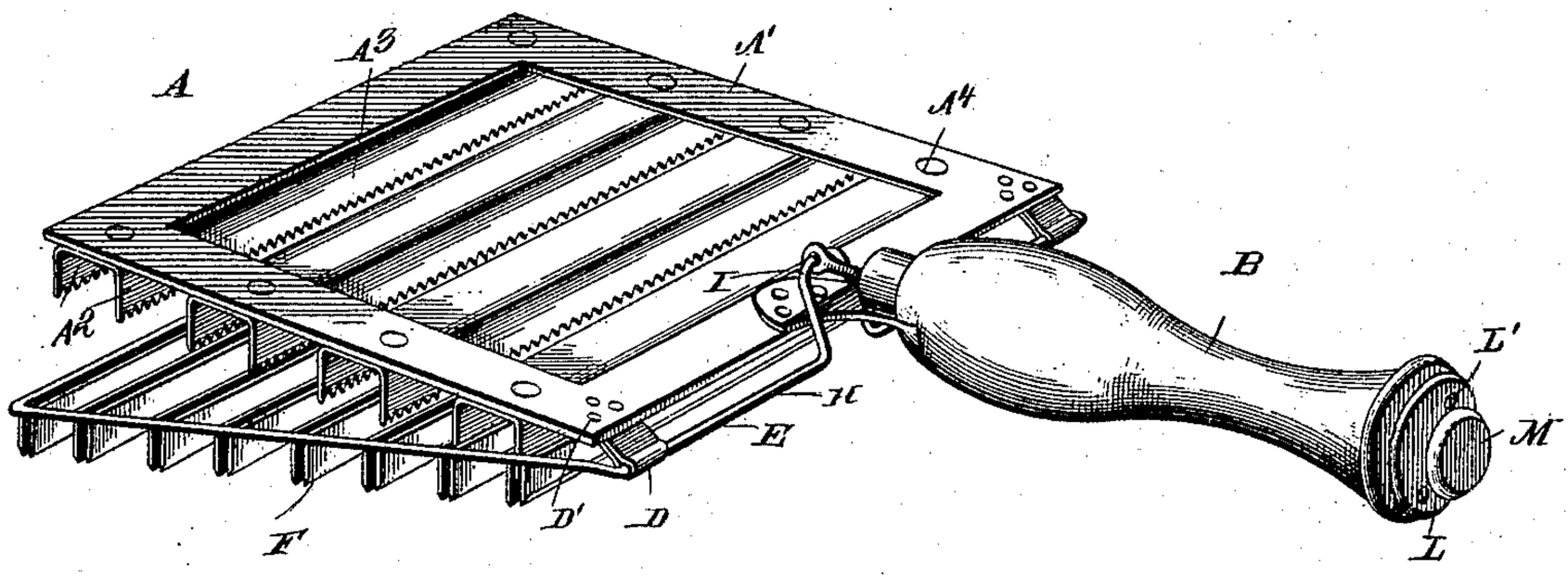


Fig. 2.

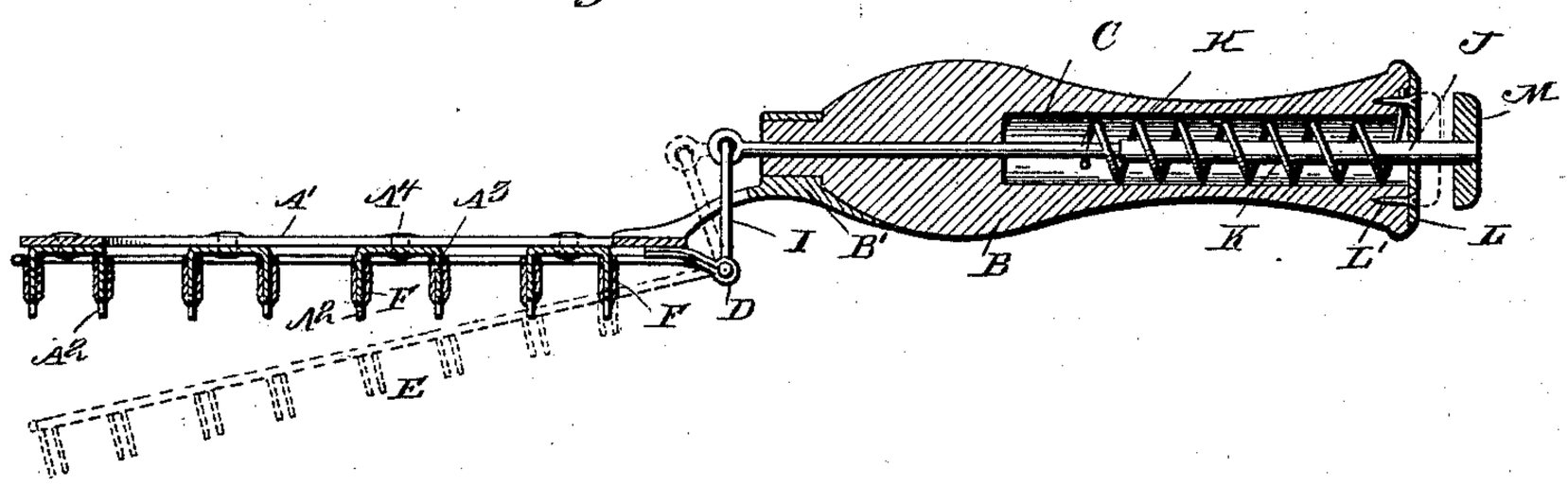


Fig. 3.

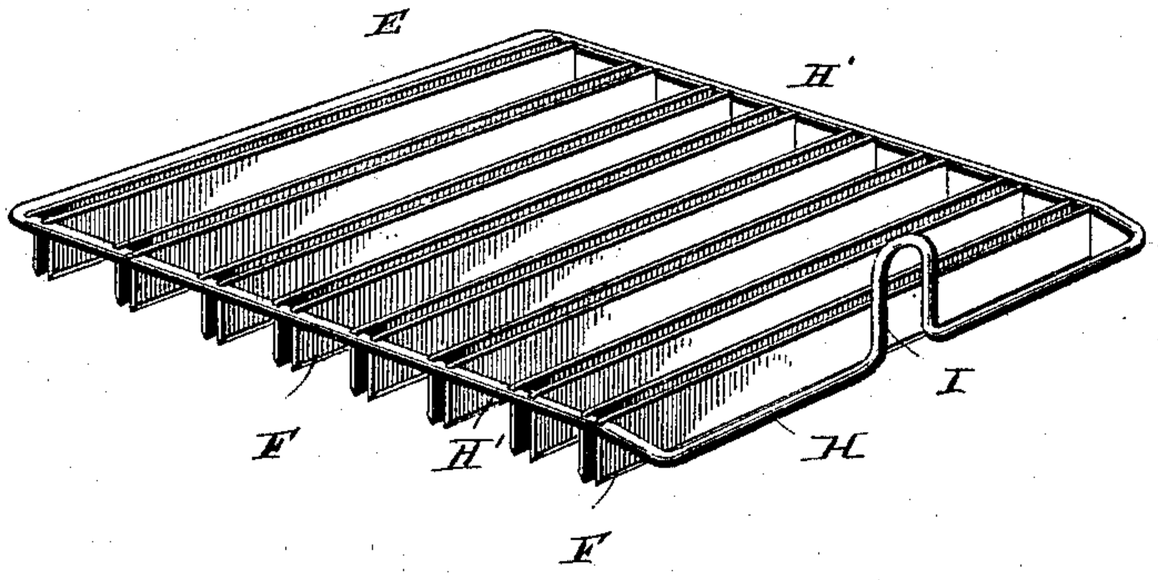
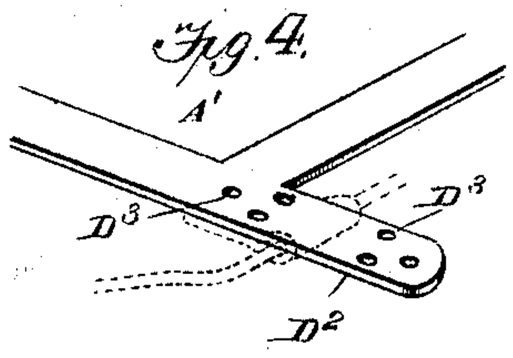


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ISAAC O. DAY, OF OTTUMWA, IOWA, ASSIGNOR OF ONE-HALF TO JOHN WONNHOUDT AND H. D. WONNHOUDT, OF SAME PLACE.

CURRYCOMB.

SPECIFICATION forming part of Letters Patent No. 591,074, dated October 5, 1897.

Application filed May 19, 1897. Serial No. 637,268. (No model.)

To all whom it may concern:

Be it known that I, ISAAC O. DAY, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Currycomb, of which the following is a specification.

My invention relates to currycombs, and is in the nature of a cheap and effective cleaning attachment therefor.

It has for its object to furnish to hostlers and others a cheap, durable, and effective arrangement attached to an ordinary currycomb, whereby the teeth of the currycomb can be instantly stripped and cleaned of any accumulation of dirt and hair therein, which device shall also be so constructed that it will, after stripping and cleaning the teeth, instantly resume its normal position ready for a repetition of the operation.

With this object in view my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described, the particular points of novelty therein being afterward specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a currycomb with my cleaning attachment secured thereto, the parts being in the positions they assume at the completion of the cleaning operation. Fig. 2 is a longitudinal vertical sectional view through the same, the parts being in their normal position ready for use. Fig. 3 is a detail perspective view showing the stripper or cleaner-plate frame, and Fig. 4 is a fragmentary detail perspective view showing a slightly-modified manner of construction of the pivotal brackets of the stripper-plate frame.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Referring to the drawings by letters, A represents a currycomb of any ordinary or preferred construction, in this instance being composed of a rectangular frame A′ of flat metal, generally made by stamping out of a sheet, to the under side of which the teeth are attached. In the comb A the teeth A^2 are formed on both edges of a piece A^3 of sheet metal, which is also formed by stamping, and the sheet A^3 is then bent into an inverted-U shape and secured to the under side of the rectangular frame A′ by means of rivets A^4.

B is the handle of the currycomb, which is also of ordinary form and secured to the frame A′ by means of a plate B′, riveted to the frame and secured to the handle in any ordinary manner.

In preparing this currycomb to receive my cleaning attachment I secure to the handle end of the rectangular frame A′ a pair of brackets D, by means of rivets D′, but where the comb is to be made with special reference to the use of my cleaning attachment such brackets might be formed in the shape of two strips projecting from the rectangular frame and adapted to be folded back upon themselves and have their ends riveted to the bracket, as fully illustrated in Fig. 4 of the drawings, in which one of the strips is shown marked D^2, in the process of manufacture being provided with proper rivet-holes D^3, as shown. The full lines in this figure show the strip before bending and the dotted lines the same after being bent to form brackets.

In the further preparation of the currycomb to receive my cleaning attachment I form a recess entirely through the handle B, the part C thereof being enlarged in diameter so as to make it of sufficient size to receive mechanisms hereinafter described. I also provide a circular plate or cap L to cover the outer end of the handle B and close up the recess C, except a central perforation of the same diameter as the smaller portion of the recess or bore through the handle. This plate or cap L may be secured to the end of handle B by any desired means, in this instance being secured by small screws L′.

My attachment consists of a rectangular frame E of metal, in this instance shown as of heavy wire or light rod iron or steel, although it might be made of a metal strip of other than cylindrical cross-section. One side H of the frame E has formed in it, in about its mid-length, a crank-like bend I, and the sides H′ H′ of the frame are connected together by pairs of strips F of flat metal, placed at the proper distance apart to have each pair embrace one of the tooth-sheets of the currycomb when in place thereon. This frame E

is pivotally connected to the frame A′ by mounting the side H in the bracket D, when the crank I will lie in line with the recess or bore of the handle.

A rod J is attached to the outer end of crank-arm I and passes entirely through the recess or bore in the handle and the plate or cap L, and a sufficient distance beyond to permit of a slight longitudinal movement of the rod in the recess.

A spiral spring K is attached at one of its ends to the rod J, and is coiled around said rod in the recess C, being at its opposite end secured around one of the screws L′, so that its tendency will be to always pull the rod J as far as possible through the cap or plate L and draw the crank I as near as possible to the handle. This will cause the wire frame H, carrying the pairs of cleaning-plates F, to be held normally up against the rectangular frame A′, with the cleaning-plates closely embracing the teeth-plates.

The rod J is finished at its outer end, outside of cap or plate L, with a head or button M.

The operation of my invention may be described as follows: When the currycomb is used, it will very soon become clogged with dirt and hair, which lodge upon and between the teeth. While my cleaner remains in its normal position it will not interrupt or interfere in any way with the operation of the currycomb nor the process of clogging or filling up with dirt or hair, but whenever the operator in using the currycomb desires to clean out any accumulation of dirt or hair he strikes the button M against the wall or any other fixed object. This drives the rod J through the recess in the handle B, forcing the crank I away from the handle and causing the frame E to move from the position shown in Fig. 2 to that shown in Fig. 1, cleanly stripping the teeth and removing all dirt and hair therefrom. As soon as this effect has been produced the tension of the spring K will be exerted and the rod J carried in the opposite direction, the effect being to draw crank-arm I close to the handle and bring frame E and cleaner-plates F back to the position shown in Fig. 2 ready for a repetition of the operation.

From the foregoing description it will be seen that my invention provides an extremely cheap, durable, and effective cleaning attachment for currycombs, which is always in position for use and when used is immediately returned to its normal position ready to be used again. It is readily operated by the same act which the users of currycombs are accustomed to perform, so that no practice is necessary to make the operator familiar with its use.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination with the currycomb having a rectangular tooth-frame, of a frame carrying stripper-plates pivotally attached to one side of said tooth-frame and having a crank-bend in one of its sides, and a spring-impelled rod connected to said crank-bend and operating to hold the stripper-plates on the teeth substantially as set forth.

2. The combination with the currycomb having rectangular tooth-frame and perforated handle, of a frame carrying stripper-plates and pivotally attached to one side of the tooth-frame, a crank-arm on one side of the stripper-frame, a rod connected with said crank-arm and extending through the handle, and a spring in the recess of the handle around said rod, normally holding it in position to keep the stripper-plates on the teeth-plates, substantially as set forth.

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