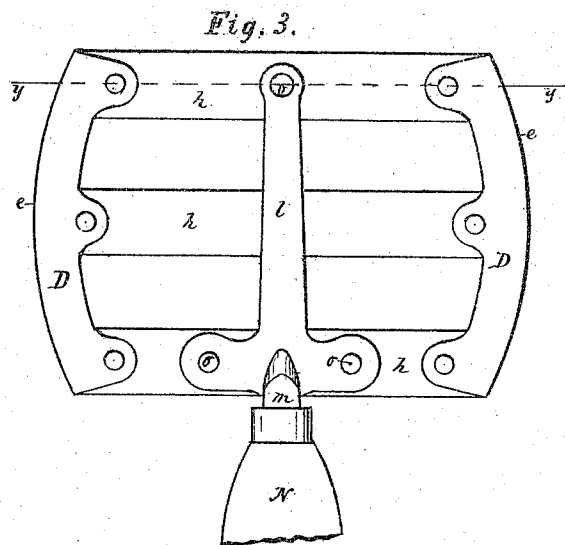
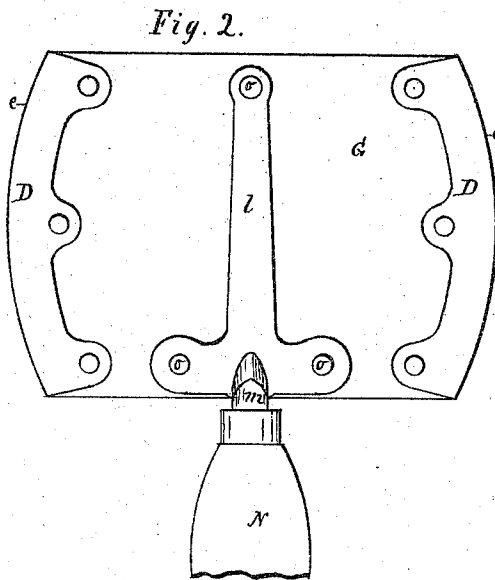
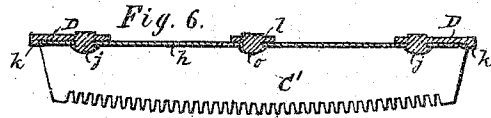
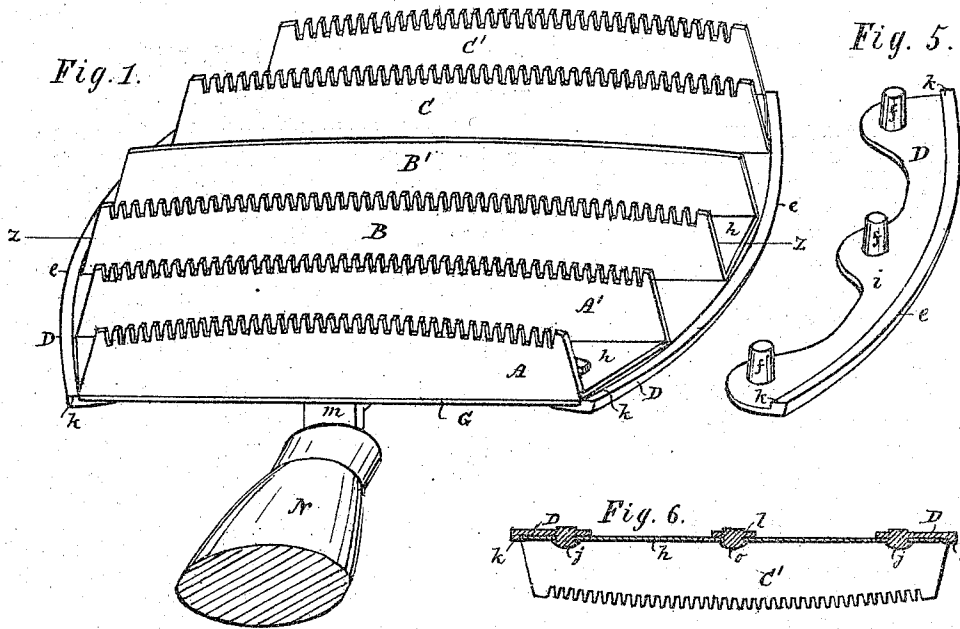
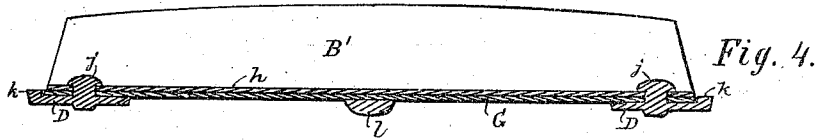


W. P. KELLOGG.  
Curry-Combs.

No. 128,632.

Patented July 2, 1872.



Witnesses:  
Geo. Rawton.  
Austin F. Park.

Inventor:  
W. P. Kellogg.

## UNITED STATES PATENT OFFICE.

WILLIAM P. KELLOGG, OF TROY, NEW YORK.

## IMPROVEMENT IN CURRY-COMBS.

Specification forming part of Letters Patent No. 128,632, dated July 2, 1872.

*To all whom it may concern:*

Be it known that I, WILLIAM P. KELLOGG, of the city of Troy, in the county of Rensselaer and State of New York, have invented a new and useful Improvement in Curry-combs, of which the following is a specification, reference being had to the accompanying drawing.

The object of my invention is to produce a curry-comb which can be manufactured at a cheap rate, and which shall also be very durable and more convenient and effective, and better adapted for use in the recesses about the limbs of horses and cattle than the curry-combs heretofore made; and my invention consists essentially in constructing a curry-comb with a set of three or more sheet-metal comb-bars of different lengths, all secured together, with the longest comb-bar or comb-bars in the middle, and all protected at their ends by means of malleable cast-metal end-pieces riveted to the backs of the comb-bars and extended laterally somewhat beyond the ends thereof in convex form, without any knocking lug or lugs projecting from the rounded end or ends of the curry-comb, substantially as hereinafter set forth.

In the aforesaid drawing, Figure 1 is a view of the toothed side of one, and Figs. 2 and 3 are plans of the back sides of two others, of my improved curry-combs, a part of the handle being broken off in each figure. Fig. 4 is a section of the curry-comb shown in Fig. 1, at the line *z z*. Fig. 5 is a view of one of the malleable cast-metal end pieces used in securing together and protecting the ends of the sheet-metal comb-bars of the curry-combs represented in Figs. 1, 2, and 3. Fig. 6 is a section of Fig. 3 at the line *y y*.

A A', B B', and C C' are a set of comb-bars formed of sheet metal, as usual in curry-combs, but of different lengths and arranged with the longest bars B B' in the middle, as shown in Fig. 1. D D are malleable cast-metal end pieces, which are of a convex form on their outer edges *e*, corresponding to a curved line joining the ends of the comb-bars of the set, and which are cast with rivet-blanks *f f f*, Fig. 5, on one side. In Figs. 1, 2, and 4, G is a back-plate, arranged between the backs *h* of the comb-bars and the sides *i* of the end pieces. In Figs. 3 and 6 there is no back-plate. The set of comb-bars of different lengths are secured together by inserting the rivet-blanks *f* of the end pieces through

rivet-holes in the back-plate G and in the backs *h* of the comb-bars, or through the backs *h* alone, if there is no back-plate, and then riveting down the blanks *f* tight upon the backs *h* of the comb-bars, as indicated at *j j* in Figs. 4 and 6. Each end-piece D has, along its outwardly-curved edge, a side flange, *k*, Fig. 5. When those end pieces are riveted to the comb-bars the flanges *k* may fit against the correspondingly-curved ends of the back-plate G, as in Figs. 1 and 4, or against the ends of the backs *h* of the comb-bars, as in Fig. 6, or against the ends of both the back-plate and backs of the comb-bars, and thereby render the curry-comb more firm and durable; and at the same time the flanged or thickened curved edges of the end pieces D D extend somewhat beyond the ends of the comb-bars, as shown in Figs. 1, 4, and 6, and thereby thoroughly protect the ends of all the comb-bars from being bent or injured by rapping any part of either end of the curry-comb against a solid substance in the usual manner of jarring out the foreign matters that accumulate in the curry-comb in using the latter, so that no knocking-lugs whatever are required to project from and beyond the ends of the curry-comb. When the back-plate G is riveted to and between the backs *h* of the comb-bars and the end pieces D, as in Figs. 1 and 4; or, when the back-strap *l* of the shank *m* of the handle N is riveted to the comb-bars, as indicated at *o o o* in Fig. 3, or so as to prevent the comb-bars from being turned on the rivets of the end pieces, in such cases the end pieces need not have the side flanges *k* thereon when the parts of the end pieces which extend beyond the ends of the comb-bars are sufficiently wide and thick to fully protect the latter.

In the drawing, two comb-bars, as A and A', or B and B', are shown formed on one back-piece *h*, and I generally prefer that construction; but as regards my invention, each comb-bar, as A or A', may be formed on a separate back-piece, or the front and rear comb-bars, as A and C', may be formed on turned-up extensions of the back-plate G, as in some curry-combs heretofore made; and each curry-comb may have three or any desired greater number of the comb-bars. I generally prefer to make the end pieces D of malleable cast-iron.

A curry-comb constructed as above described is far more convenient and effective in use, es-

pecially about the hollows and recesses where the limbs of the animal join its body, than if the same set of sheet-metal comb-bars of different lengths were riveted to a sheet-metal back-plate having rounded ends, with knocking-lugs projecting from the ends of the curry-comb; or than if the comb-bars were of equal lengths and riveted to malleable cast-metal end pieces projecting beyond the ends of the comb-bars, with square corners or knocking-lugs thereon, as in some curry-combs heretofore made. In the curry-combs heretofore constructed with the teeth all cast in one and the same piece with a back-plate having rounded ends, without any knocking-lugs projecting therefrom, the teeth are necessarily very different from and inferior in action to the teeth of curry-combs having sheet-metal comb-bars, and such curry-combs, with the teeth and back cast together, are generally discarded.

I do not claim a curry-comb having rounded ends without any knocking lug or lugs projecting therefrom; nor a curry-comb having sheet-

metal comb-bars riveted to malleable cast-metal end pieces projecting beyond the end of the comb-bars; nor a curry-comb having a set of sheet-metal comb-bars of different lengths, with the longest in the middle. The combination of all three of those features is essential to my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

A curry comb having the set of sheet-metal comb-bars of different lengths secured together with the longest in the middle and protected at their ends by means of the malleable cast-metal end-pieces D shaped and riveted to the backs *h* of the comb-bars and extended somewhat beyond the ends thereof in outwardly-curved form, without any lug or lugs projecting from the end or ends of the curry-comb, substantially as herein shown and described.

WM. P. KELLOGG.

Witnesses:

GEO. P. LAWTON,  
AUSTIN F. PARK.