

(No Model.)

T. BUTTERWORTH.
SPRING CURRYCOMB.

No. 516,520.

Patented Mar. 13, 1894.

FIG. 1.

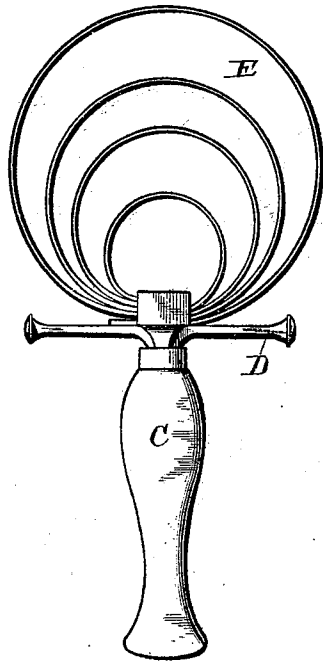


FIG. 2.

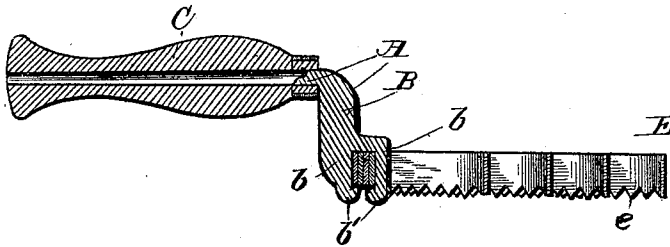


FIG. 3.

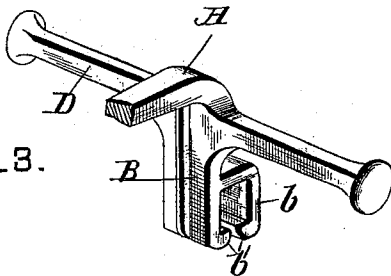


FIG. 4.

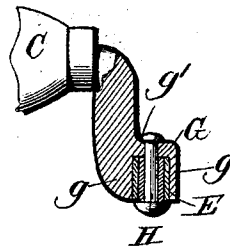
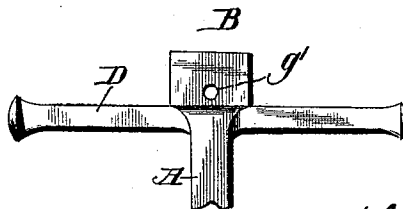


FIG. 5.



Witnesses

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Bernard Werle

Inventor

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by *Charles E. Adamson*
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UNITED STATES PATENT OFFICE.

THEODORE BUTTERWORTH, OF QUINCY, ILLINOIS.

SPRING-CURRYCOMB.

SPECIFICATION forming part of Letters Patent No. 516,520, dated March 13, 1894.

Application filed December 23, 1892. Serial No. 456,160. (No model.)

To all whom it may concern:

Be it known that I, THEODORE BUTTERWORTH, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Spring-Currycombs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain improvements in spring curry combs and consists in certain novelty of construction, arrangement and combination of the various parts all of which I will now proceed to point out and describe reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a comb secured to its handle in the preferred manner. Fig. 2 is a section taken longitudinally through the handle showing the means employed for securing the comb to the handle. Fig. 3 is a detail on an enlarged scale. Fig. 4 is a sectional detail illustrating a modification of the means employed for securing the comb to the handle, and Fig. 5 a top plan view of said detail.

Referring to said drawings—A represents a metal shank having its outer end B, enlarged and bent at right angles. Said end being bifurcated forming two members *b*, having inwardly projecting lips *b'*. The end B being made of malleable metal. Said shank is secured in the ordinary manner in a wooden handle C.

D are arms projecting at right angles on opposite sides of the shank at a point below the bifurcated end and at the end of the wooden handle and said arms are provided with enlarged ends and form what I preferably term knockers for a purpose hereinafter described, said arms or knockers being formed integral with the said shank.

E is a spiral spring comb provided with teeth *e*. Said spring is coiled so as to present rings decreasing in size from the outer to the inner ring and each coil or ring is placed within the bifurcated ends of the shank so as to rest against each other, the members *b*, of said bifur-

cated ends are then clamped together, thus securely holding the spring comb in place. By placing the rings so that they rest against each other one coil or ring is strengthened by the other and firmly held in place. The teeth on the coils or rings are cut away at the point where they are secured in the bifurcated end of the shank.

The knockers which I have heretofore described are of great value as it is customary with all horsemen to frequently knock the comb against some hard substance to remove the dust and hair while currying, this is always liable to damage the comb. By means of the knockers the force of the blow comes entirely upon the metal shank and the jar upon the spring comb being sufficient to remove dust or hair without injuring the comb itself.

In Figs. 4 and 5 I have shown a modified means for securing the spring comb to the handle. In this the shank is the same and the end is bifurcated forming a yoke G, having two parallel members *g*, and provided at the base of said yoke with a hole *g'* for the passage of a vertical rivet or screw. In this yoke the rings of the comb are secured by a headed rivet H passed between the second and third rings, and through the hole *g'* in the yoke. A bolt may be employed instead of the rivet if so desired. The head of the rivet serving to hold the spring comb in place and secure same to the handle.

My invention is simple in its construction, can be manufactured cheaply and will be found to be much more durable than combs of this class which have heretofore been in use.

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

1. In a spring curry comb, the combination of a handle and a metal shank A, having formed integral therewith arms D, projecting at right angles to and on opposite sides of the handle, forming "knockers," and a spring metal comb secured to said shank, substantially as shown and described.

2. In a spring curry comb, the combination of a handle and a shank having a bifurcated metal end, a coiled spring comb having the

coils of the spring in the bifurcated end, the members of said bifurcated end being clamped upon said spring coils, substantially as shown and described.

5 3. In a spring curry comb, the combination of a handle, a shank A provided with a bifurcated metal end B, having inwardly projecting lips *b'*, a coiled spring comb having the coils of the spring in said bifurcated end
10 and the members of said bifurcated end being

clamped upon the spring coils, and said shank carrying "knockers," substantially as shown and described.

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

THEODORE BUTTERWORTH.

Witnesses:

G. C. WIDNEY,

PETER WALLACE.