M. DITTENHOEFER.

Combs.

No. 158,922. Patented Jan. 19, 1875.

Fig. 1.

Fig. 2.

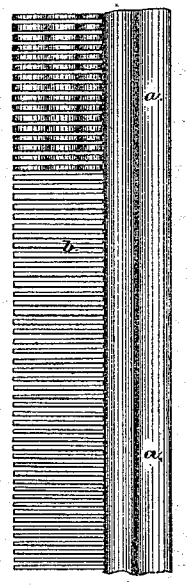
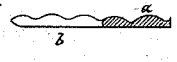


Fig. 3.



Witnesses.

1: Robt. M. Hooper

2: Emile Durham

Inventor.

Myer Dittenhoefer

UNITED STATES PATENT OFFICE.

MYER DITTENHOEFER, OF ST. DENIS, NEAR PARIS, FRANCE.

IMPROVEMENT IN COMBS.

Specification forming part of Letters Patent No. **158,922**, dated January 19, 1875; application filed October 19, 1874.

To all whom it may concern:

Be it known that I, MYER DITTENHOEFER, of St. Denis, near Paris, France, have invented an Improvement in Manufacturing Combs of all kinds and for whatever purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed sheet of drawings making a part of the same.

My invention relates to an improvement in manufacturing combs of all kinds; and it consists in the undulated or corrugated form of the teeth, as hereafter more fully described—first, as a substitute and a modification for the forms hitherto made, on which the comb depended chiefly for its strength on the variation and shape and thickness of the back, whereas in the comb of my invention the teeth and back can be made of equal thickness without losing their elasticity; second, to enable the comb to enter the hair more easily, and at the same time to retain a firmer hold thereof and remain more securely in its place, thereby avoiding great inconvenience and the loss and breakage of such combs by reason of their falling out of the hair; third, to render the entire comb elastic and flexible; fourth, to give it greater strength; and, fifth, to improve its appearance.

Corrugations, elevations, ribs, or undulations on the teeth of a comb have the effect both of strengthening it, improving its appearance, and rendering it more flexible or elastic, which result may be obtained by hollows, ridges, corrugations, or undulations running tranversely or longitudinally, and whether they be on the outer or inner face, or on both. The material which I propose to use in the manufacture of my combs, and of one piece of which they will be made, is india-rubber, horn, tortoise-shell, ivory, bone, or wood.

In order that my invention may be more readily understood, I have represented in the accompanying drawing, as a specimen, a portion of a child's comb for retaining the hair; but any other form of comb, whatever may be its purpose, might be taken as an example.

Figure 1 shows a front view of the comb; Fig. 2, a cross-section of same. Fig. 3 shows a modification hereafter described.

In these three figures the same letters of reference indicate the same parts.

a, undulated back of the comb, the said undulations being on the outer side only, as shown, but it might be undulated on both sides, the grooves, ribs, flutings, or undulations being longitudinal; *b*, undulated teeth of the comb, the undulations being on the outer side, (but might be on both sides,) the said grooves, ribs, flutings, or undulations being parallel to those of the back, and therefore transversal to the length of the teeth. I may, however, combine longitudinal undulations of the teeth with the said transverse undulations, as shown in Fig. 3.

The method and means of manufacture are by molding, cutting out, and stamping, the tools employed being of such form that the comb is formed with the undulations above described.

I am aware that it is not new to bend, and thereby form corrugations in the sides of, the teeth of metal combs, and I therefore do not claim, broadly, combs having corrugated teeth; but

Having described my invention, what I claim is—

As an improved article of manufacture, a comb made in one piece, of india-rubber or equivalent material, with undulations formed on the back or face of the teeth thereof, substantially as and for the purpose specified.

M. DITTENHOEFER.

Witnesses:

RETT M. HERPER,

EMILE DUHAN.