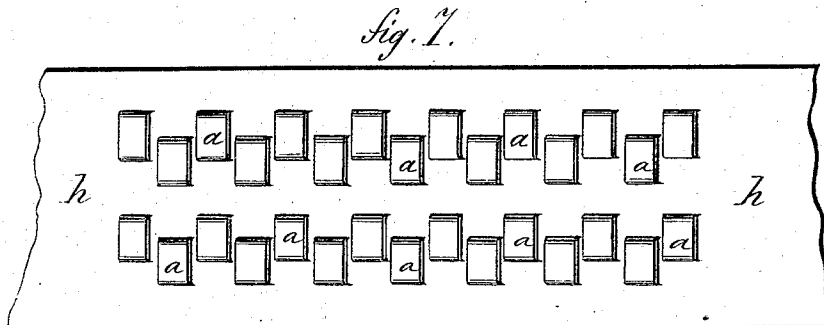
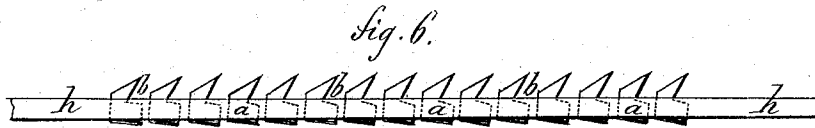
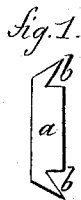


L. M. PICHARD.

Teeth for Carding-Machines.

No. 157,925.

Patented Dec. 22, 1874.



Witnesses
J. H. Shumway
A. J. Tibbitts

Louis Mironide Pichard
Inventor
By atty.
John D. Gaul

UNITED STATES PATENT OFFICE.

LOUIS MIROUDE PICHARD, OF ROUEN, FRANCE.

IMPROVEMENT IN TEETH FOR CARDING-MACHINES.

Specification forming part of Letters Patent No. **157,925**, dated December 22, 1874; application filed April 22, 1874.

To all whom it may concern:

Be it known that I, LOUIS MIROUDE PICHARD, of Rouen, France, manufacturer, have invented an Improvement in Saw-Teeth for Carding-Engines, of which the following is a specification:

My invention consists essentially in the manufacture of saw-teeth for cards, formed with an inclined notch immediately below the points of the teeth. This inclined notch, which is formed as herein shown, so as to commence from the point of the tooth, effectually obviates the inconveniences arising from the teeth with inclined bases, which are produced with the tool called the "turning-cone."

The inclination which it has been endeavored to obtain by this tool disappears when the plate or the ribbon of the cards is applied upon the cylinder, because the tension causes the teeth to straighten.

With my system of teeth, with inclined notches made below the point, the inclination is maintained, and does not change, whatever may be the tension at the folding of the plates or card-ribbons upon the cylinder or drum.

I proceed, with reference to the accompanying drawing, to explain a specimen of my new saw-tooth, with inclined notch.

Figures 1 and 2 show a finished saw-tooth, as a flattened metallic thread or a metallic band, *a*. The essential peculiarity of this tooth consists in an inclined notch, *b b*, formed at the same time as the tooth toward each of its ends. Figs. 3, 4, and 5 show different views of the saw-tooth folded. At Fig. 3 is shown how the notch *b* of the tooth is presented. Fig. 6 shows the saw-teeth with inclined notches fixed into the plate or the ribbon of the card *h*; and Fig. 7, a view of the under side of a card-ribbon, with the finer

saw-teeth fixed therein, but always with the same system of inclined notch.

Whatever may be the dimensions of my saw-teeth with notches inclined below the point, they invariably preserve their inclination when the plates or ribbons are mounted upon the cylinders or rollers.

I can manufacture these teeth either mechanically or by hand, and I may form the inclined notch below the point before or after folding the tooth. I use iron, steel, or other tempered metal for their manufacture, cemented, galvanized, or tinned. I fix the saw-teeth upon all kinds of simple or combined materials, upon plates, ribbons, leather, or upon fabrics alone or combined with caoutchouc, leather, or glue. I may apply them upon bands of metal or wood, and I can appropriate them to work of all kinds upon filamentous materials.

I am aware that sheet-metal card-teeth have before been made; such may be seen in the patents of Montgomery, June 13, 1854, and Parkhurst, August 20, 1867. I therefore do not broadly claim a sheet-metal card-tooth, or anything shown in said patents.

I claim—

The herein-described card-teeth, constructed from sheet metal, the points of which are formed by inclines upon the back, and notches *b* in front, whereby the full width of the body *a* between the notches is preserved, and its front edge is, at least, flush with the extreme points of the teeth, as specified.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

LOUIS MIROUDE PICHARD.

Witnesses:

F. HARNEY,
A. MOREC.