

944,031.

Patented Dec. 21, 1909.

Fig. I.

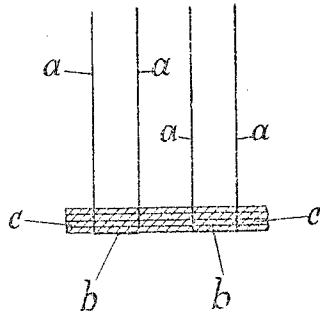


Fig. II.

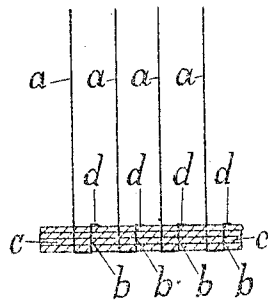


Fig. III.

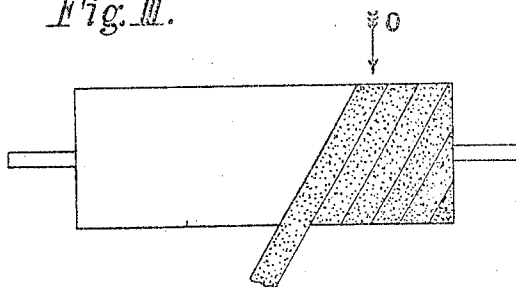
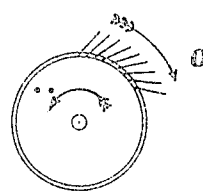


Fig. N.



Witnesses:

Hugh O'Connell
F. Dittmar

Inventor:

Jos. Jacques Gillet
J. J. Dittmar
Attorney

UNITED STATES PATENT OFFICE.

JOSEF JACQUES GILLET, OF AIX-LA-CHAPELLE, GERMANY.

CARD-CLOTHING.

944,031.

Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed February 24, 1909. Serial No. 479,739.

To all whom it may concern:

Be it known that I, JOSEF JACQUES GILLET, a citizen of the German Empire, residing at Aix-la-Chapelle, Kingdom of Prussia, have invented a Card-Clothing, of which the following is a complete specification, reference being had to the accompanying drawings.

My invention relates to a card-clothing where the teeth, with a view to develop a great elasticity, must stand in a very thin or very soft cloth. The latter however has the disadvantage, that the teeth set into it, during their work, get gradually loose in their holes and the card-clothing is made worthless.

In the accompanying drawing Figure 1 is a side elevation showing the old construction of teeth. Fig. 2 is a side elevation showing the new construction. Fig. 3 shows the cylinder of a carding engine with the card clothing in shape of a ribbon wound upon it in a spiral line, and Fig. 4 shows the same in end elevation.

The teeth of these clothings, at present in use, are bent in the shape of a U, Fig. 1, of the annexed drawing, so that the teeth *a* are connected in pairs by means of a connecting bridge *b*. At work both teeth are moved considerably in the operation of carding, whereby they act in the holes, in which they are secured under a certain leverage and thus widen said holes in such a way that finally the teeth get loose.

The clothing forming the subject of the invention is characterized by the fact, that the teeth are quite independent of each other. Each tooth, Fig. 2, is bent U shaped

at the end and a limb *b* penetrates into the cloth parallel to the limb *a* of the tooth. This structure renders the fastening of the teeth in the foundation more secure than in the case where the teeth are arranged in pairs as in Fig. 1, since in the operation of carding, the effort exerted upon the fastening portion of the teeth arranged in pairs is double that exerted upon the fastening portion of a single independent tooth. To still increase the hold, but especially to prevent the tendency of the teeth to penetrate the foundation beneath the clothing, the limbs *b*, Fig. 2, are bent at right angles at *d* over the surface of the cloth in such a way, that the teeth stand fast and at the same time that the coatings or layers of the cloth are held together. The hold in the cloth thus effected for each tooth, is largely increased, because the teeth, even under the greatest strain in the carding operation, are able to yield in all directions.

What I claim as my invention and desire to protect by Letters Patent is:

A card clothing comprising teeth each standing independently from the others, being bent in U shape at the end to be secured, having a limb (*b*) standing in the cloth parallel to the main limb *a* and a bend (*d*) lying on the surface of the cloth and at right angles to the limbs *a* and *b*, substantially as described.

In testimony of all I have hereunto subscribed my name.

JOSEF JACQUES GILLET.

Witnesses:

HENRY QUADFLIEG,
ELISE KOELBUSCH.