

C. Gunther.
Coating Thread with Metal.
Nº 90,740. Patented Jun. 1, 1869.

Fig: 1.

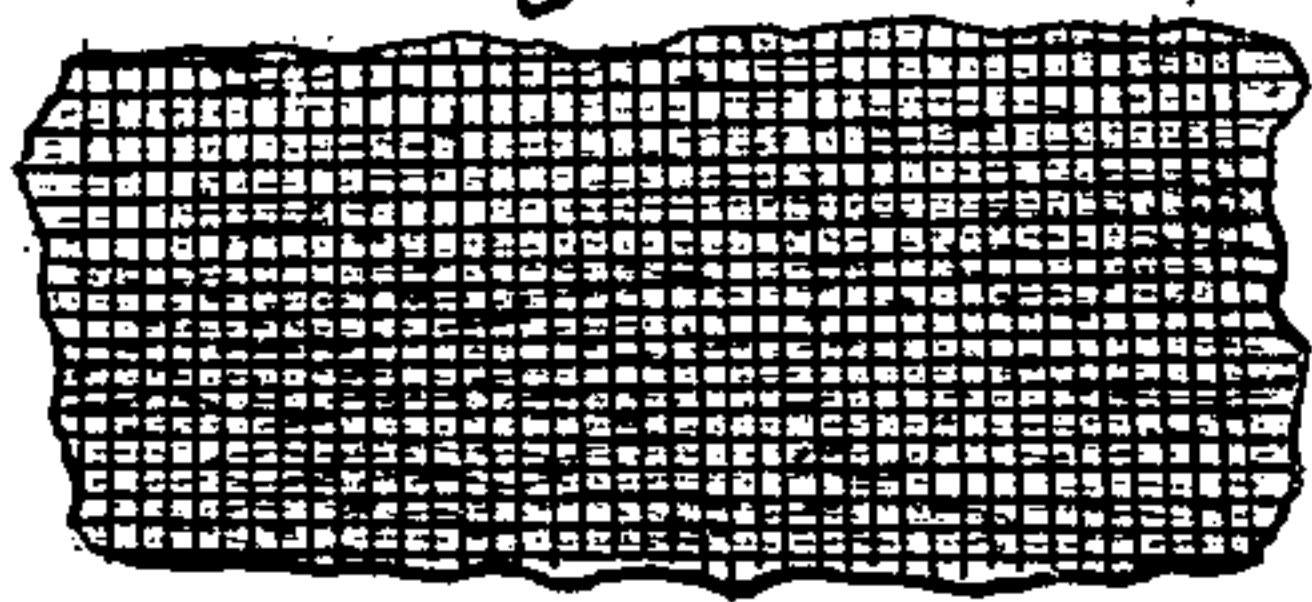


Fig: 2.

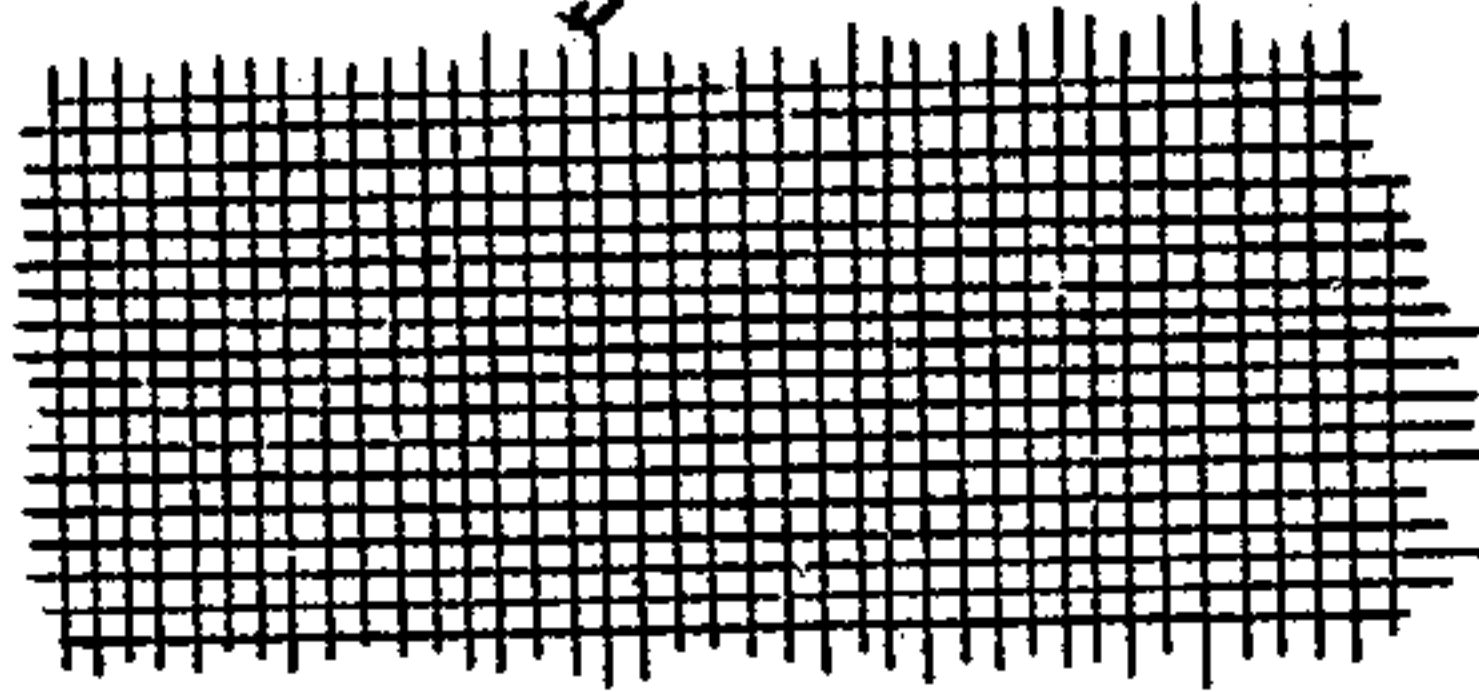


Fig: 3.

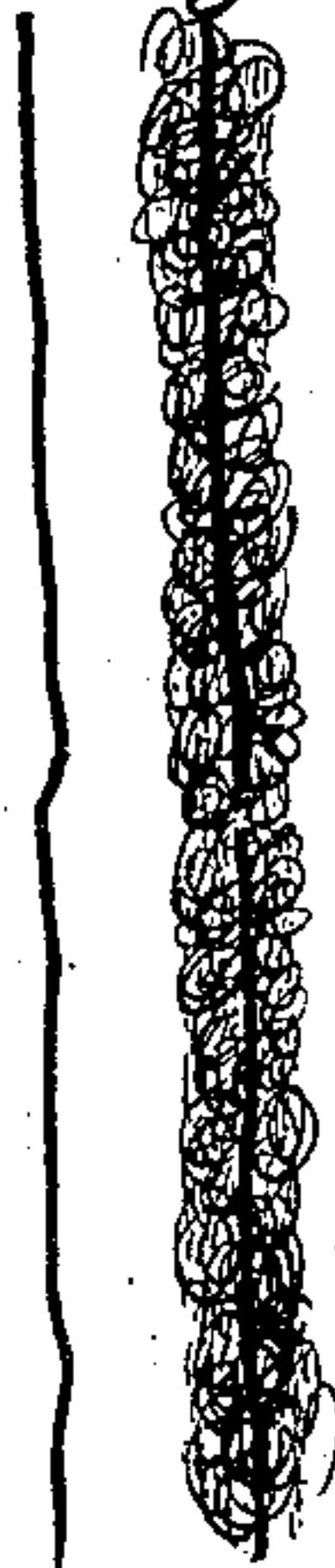
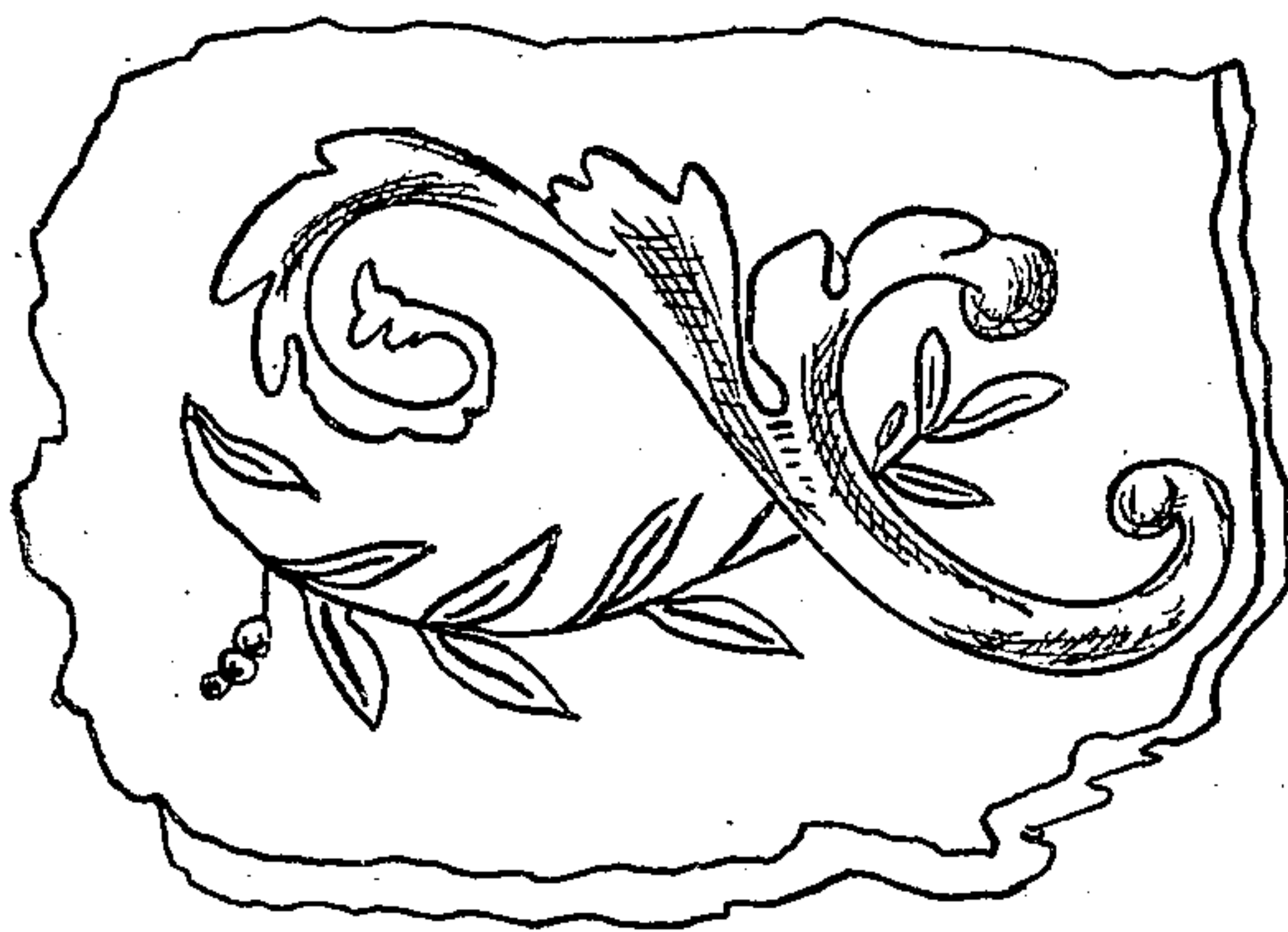


Fig: 4.



Witnesses;

Stinchman
Drott & Doorkes

Inventor;

C. Gunther
Munn & Co.

United States Patent Office.

CARL GÜNTHER, OF BERLIN, PRUSSIA, ASSIGNOR TO FREDERICK VOLKMAN, OF HOBOKEN, NEW JERSEY.

Letters Patent No. 90,740, dated June 1, 1869.

MODE OF COATING THREADS WITH METALS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CARL GÜNTHER, of Berlin, Province of Brandenburg, and Kingdom of Prussia, have invented a new and improved Method of Coloring Threads, Fabrics, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The figures in the drawing represent face views of fabrics, showing the application of my improved threads.

This invention relates to the production of improved threads from which ornamented fabrics may be woven; and

It consists in covering the threads with metal foil, to imitate gold and silver, as will be hereinafter more fully described.

It has been a subject of considerable research, to detect a means of covering threads with metal, in such a manner that the same will not wear off, and not destroy or injure the flexibility of the threads.

By my improvement, the threads are left as flexible as they were before, and they can be folded or woven without breaking or injuring the metallic covering.

In carrying out my invention, I apply a primary coat of colored varnish to the threads, in single, double, or treble layers.

For gold foil, this varnish is mixed with yellow ocre, or other equivalent coloring-matter, while for silver foil, white lead, or its equivalent, is mixed with the varnish.

I prefer to mix the varnish with a small quantity of copal, whereby it is made elastic, and caused to dry quickly and thoroughly.

The varnish, mixed, as aforesaid, with the coloring-matter, is, when it has about the consistency of paste, applied to the thread, by means of a brush, or other mechanism.

The foil is then placed upon the thread, and when the varnish is quite, or nearly dry, is brushed, to remove those parts that do not adhere closely.

Threads, thus treated, can be used on the loom, to be interwoven in other fabrics, or they may be used for sewing, to produce brilliant stitches.

The metal adheres so firmly that it will not be worn off by the manipulation to which the threads are exposed, during such weaving or sewing-process.

One of the principal advantages of my improved threads is, that they can be readily washed, without injuring the foil.

Having thus described my invention,

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

As new articles of manufacture, flexible threads, covered with metal foil, in imitation of gold and silver threads, as herein described, for the purpose specified.

The above specification of my invention signed by me, this 4th day of November, 1868.

CARL GÜNTHER.

Witnesses:

H. KREISMANN,
G. YOUNG.