

S. GWYNN.
Journal-Box Linings.

No. 140,774.

Patented July 15, 1873.

Fig 1.

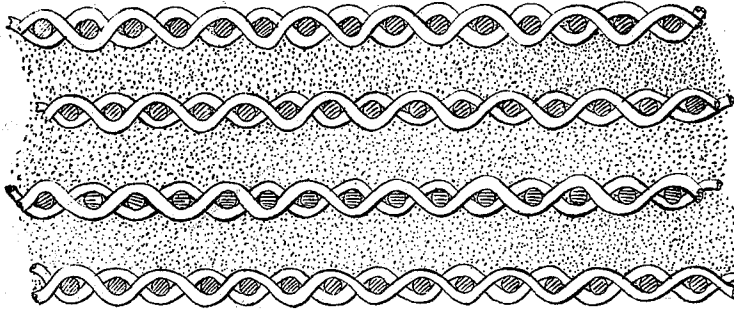


Fig 2.

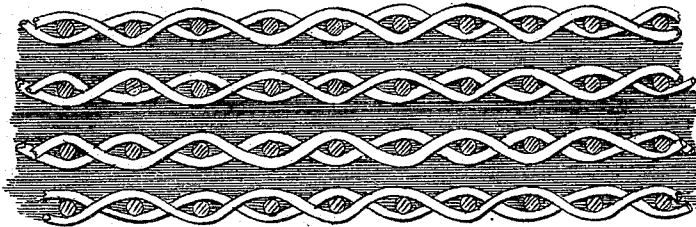
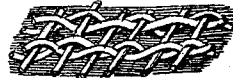


Fig 3.



Fig 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

STUART GWYNN, OF NEW YORK, N. Y., ASSIGNOR TO THE AMERICAN METALINE COMPANY, OF SAME PLACE.

IMPROVEMENT IN JOURNAL-BOX LININGS.

Specification forming part of Letters Patent No. **140,774**, dated July 15, 1873; application filed June 28, 1873.

To all whom it may concern:

Be it known that I, STUART GWYNN, of the city, county, and State of New York, have invented an Improved Lining for Journal-Boxes and other rubbing surfaces, of which the following is a specification, reference being had to the accompanying drawings forming part of the same.

On the 12th day of April, 1870, certain Letters Patent of the United States were issued to me, numbered from 101,862 to 101,869 inclusive, for certain compositions of matter denominated "metaline," and for the process or method of making the same, as also the offices it performs, to which reference is made.

The invention herein intended to be described and claimed relates to a special mode of applying the said several kinds of metaline, or any of them, or their equivalent, to practical use; and consists in a combination of metaline with the material, in the manner and for the purposes particularly described.

Figure 1 is a vertical sectional view of my invention, showing the first stage of its fabrication. Fig. 2 is a similar view of the same, showing the same after pressure has been applied to it, and thus completed and rendered ready for use. Fig. 3 is a top view of the same, in perspective, before pressure has been applied. Fig. 4 is a similar view of the same after pressure has been applied.

In fabricating my invention, I first spread upon a sheet or strip of wire-cloth a layer or stratum of metaline, or its equivalent, in a finely-powdered state. Upon this I superimpose another sheet of the wire-cloth, and then again another layer or stratum of met-

aline, continuing the alternate layers of wire-cloth and metaline until the requisite thickness of mass is obtained. I then subject the entire mass to severe pressure, by means of suitably-constructed presses or rollers, by which the powdered metaline is compressed and compacted into a solid form, and so incorporated with the meshes of the wire-cloth that the cloth really forms one composition or substance, the meshes of the cloth being flattened or straightened, and thus becoming firmly embedded in the metaline and serving to hold the metaline in shape and position, so that the entire substance thus formed may be readily handled and cut into strips or other desired forms to be used in lining journal-boxes or other surfaces designed to be subjected to friction, the metaline being a material which, in its action on such surfaces, obviates the necessity of the use of oil or any other extraneous lubricator. In applying it to use, the strips of the lining are placed, of course, with the edges or ends of the alternate layers of metaline and wire-cloth faced upon journals or other bearings.

In the drawings an enlarged size of this invention is shown, in order that the invention may be more readily and conveniently perceived.

What I claim as a new manufacture is—

The composition denominated metaline, incorporated with wire-cloth, substantially as and for the purpose specified.

STUART GWYNN.

Witnesses:

A. LIVINGSTON MILLS,
A. F. FITCH.