

S. GWYNN.
Journal Box Linings.

No. 138,646.

Patented May 6, 1873.

Fig 1.

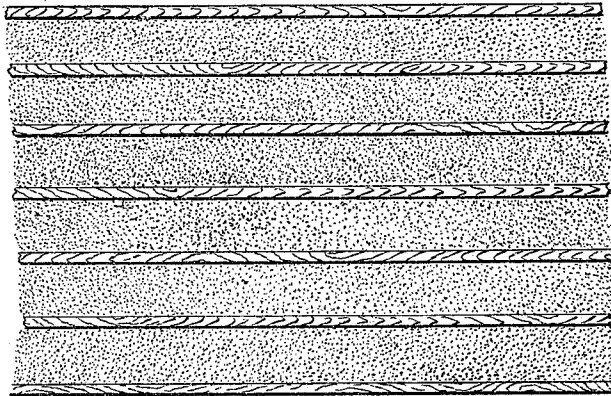
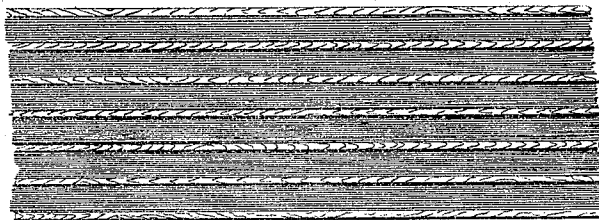


Fig 2.



Witnesses

Apvingston Mills

H. Fitch

Inventor

Stewart Gwynn

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. **138,646**, dated May 6, 1873; application filed January 29, 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 a new manufacture, the same being an Improved Lining for Journal-Boxes and other rubbing surfaces, of which the following is a specification, reference being had to the accompanying drawing 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 in the first stage of its fabrication. Fig. 2 is a similar view of the same after it has been subjected to pressure, and thus completed and ready for use.

In fabricating my invention I first spread upon a thin sheet or strip of wood of any kind and of a thickness of from one-sixteenth to one-eighth of an inch, or greater, if desired, a layer or stratum of metaline, or its equivalent, in a

powdered state. Upon this I superimpose another sheet or strip of the wood and then again another layer or stratum of metaline, containing the alternate layers of wood and metaline, until the requisite thickness of the mass is obtained. I then subject the entire mass to severe pressure in any suitable manner, preferably between rollers, which pressure compresses and compacts the metaline into a solid form, and so incorporates it with the fiber of the wood that the metaline is held in shape and position, and with the wood really forms one composition or substance, and may be readily handled and cut into strips to be used in lining journal-boxes or forming other surfaces designed to be subjected to friction, the metaline being a material which, in its action as 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 wood faced upon the journals or other bearings.

What I claim as a new manufacture is—

The composition denominated metaline, incorporated with sheets of wood of any kind, substantially as and for the purposes specified.

STUART GWYNN.

Witnesses:

A. LIVINGSTON MILLS,
A. S. FITCH.