

W. M. Canfield,

Steam Packing.

No. 113,252.

Patented Apr. 4. 1871.

Fig 1

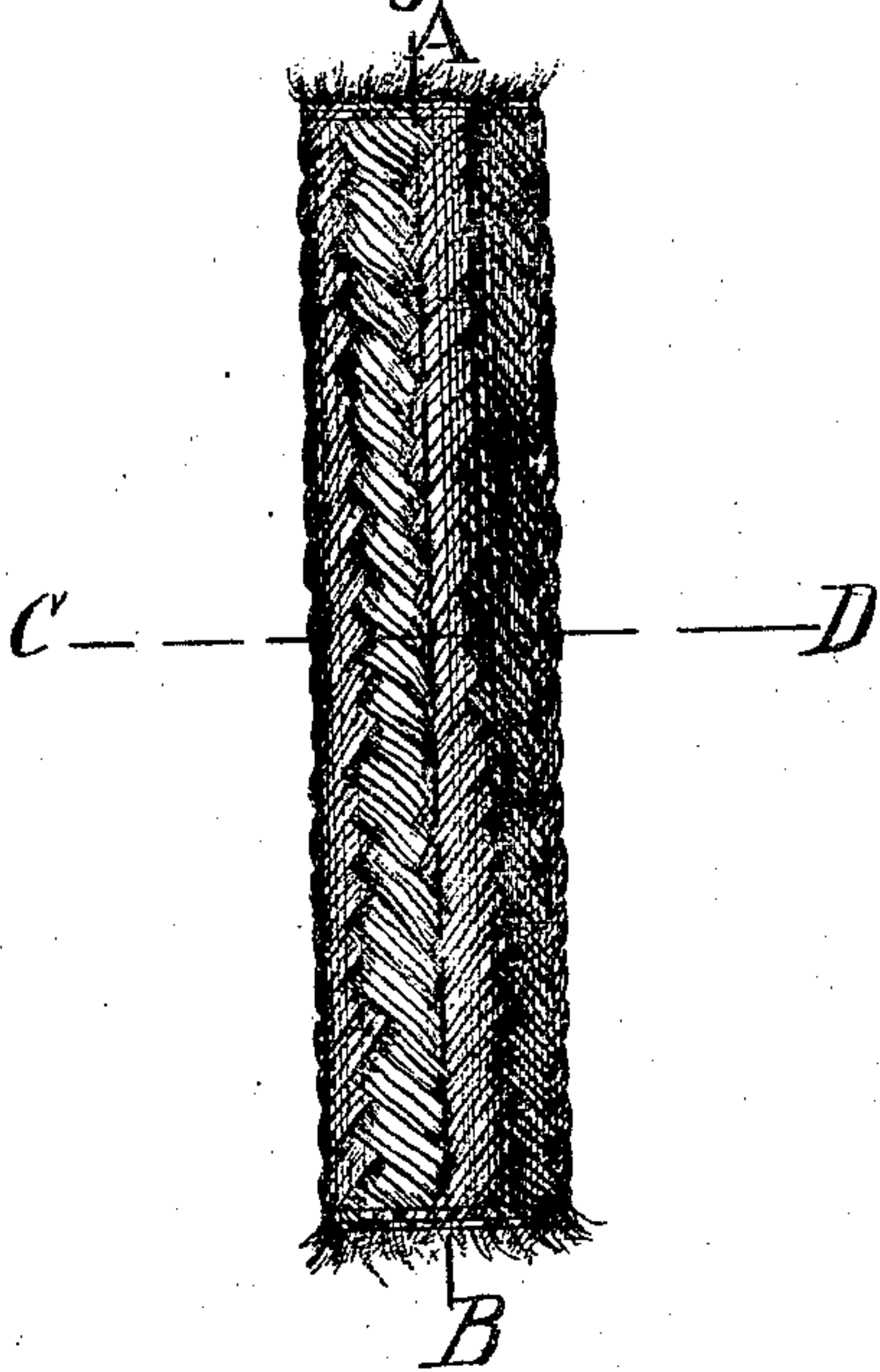


Fig 2

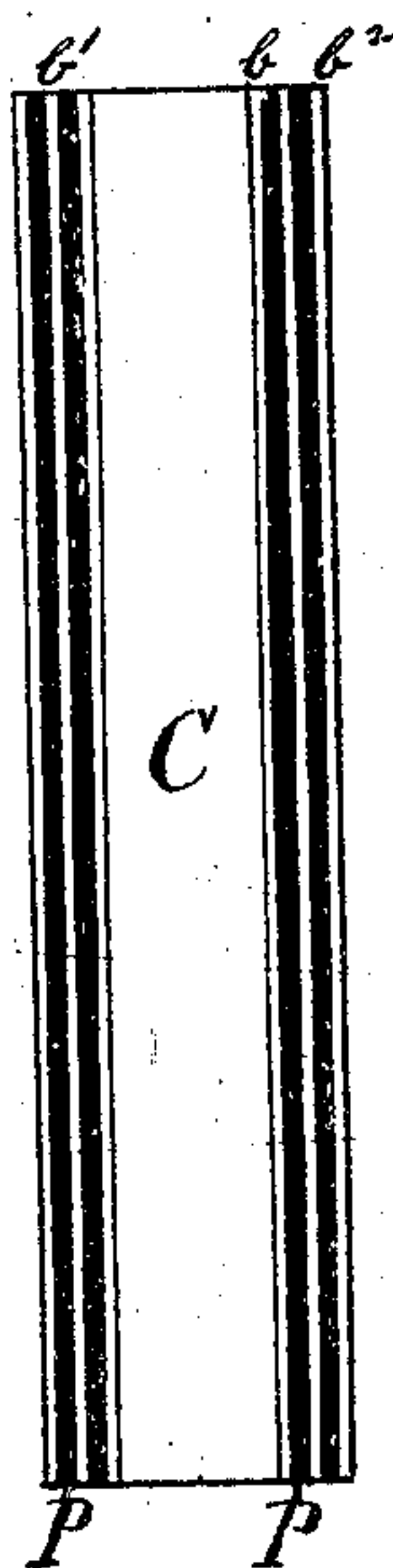


Fig 3

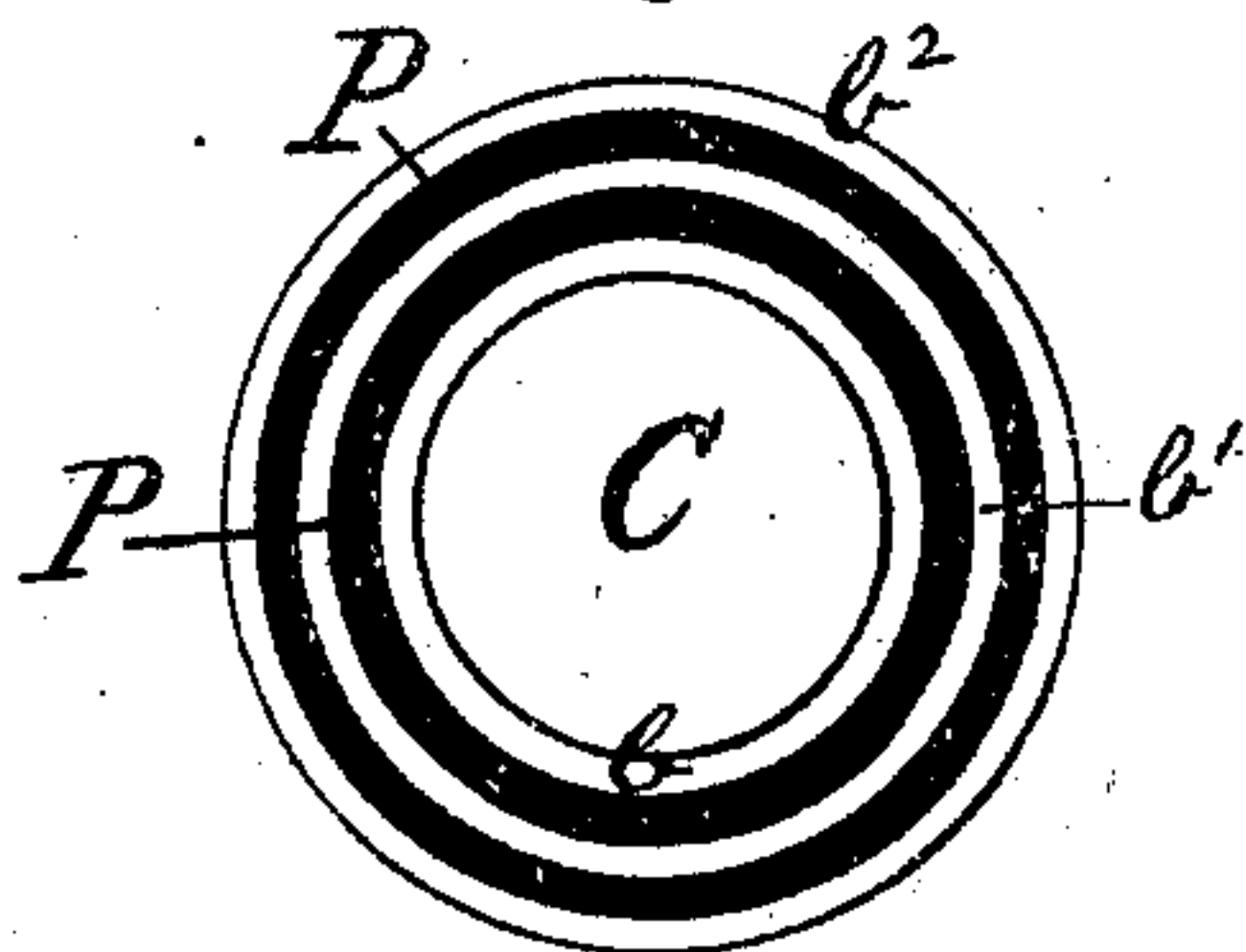


Fig 4

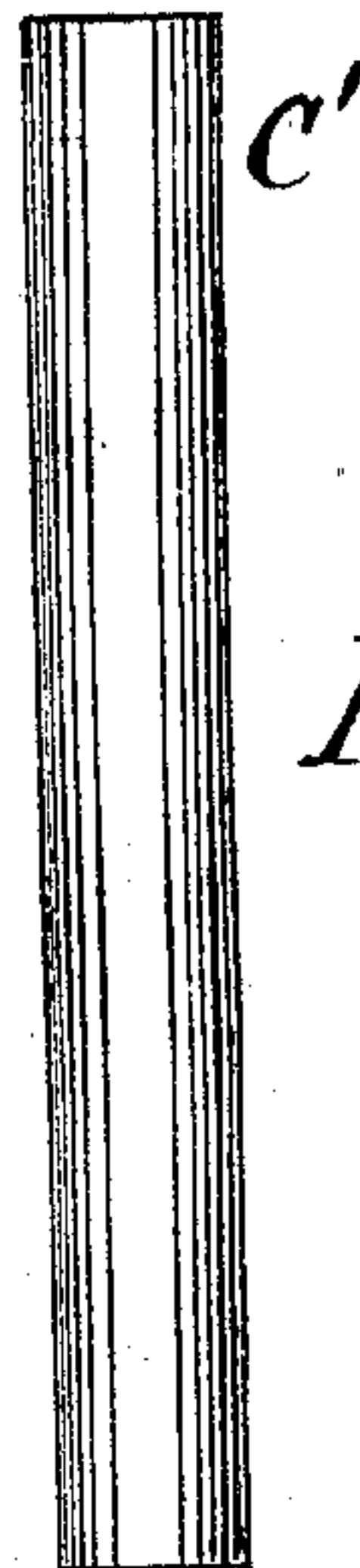


Fig 5

Witnesses  
Frank Hunt  
Joseph Evans

Inventor.  
William M. Canfield

# United States Patent Office.

WILLIAM M. CANFIELD, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 113,252, dated April 4, 1871.

## IMPROVEMENT IN STEAM AND HYDRAULIC PACKINGS.

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

I, WILLIAM M. CANFIELD, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain Improvements in Steam and Hydraulic Packing, of which the following is a specification.

The nature of my invention consists of a circular succession of braids, with a central elastic cord; between the braids is inserted a lubricating compound, patented by me under date of December 27, 1870, and which, in combination with my braids and central elastic cords, forms my invention.

In the accompanying drawing which makes a part of this specification—

Figure 1 is a side view of my packing.

Figure 2 is a sectional view on the line A B.

Figure 3 is a sectional view on the line C D.

Figures 4 and 5 are detached views of the central cords used.

To enable those skilled in the art to make and use my invention, I will now proceed to describe its construction.

I first take the central elastic cords C or C', the cord C, fig. 4, being composed of hemp, or the cord C', fig. 5, of India rubber. These cords form the foundation of the packing, and are used for the purpose of giving the same proper elasticity, in order to make tight joints.

I now form over the cords C or C' a circular hemp braid b, on the surface of which I place a coat of my compound, P, composed of the ingredients contained in the first, second, or third claims of my patent of December 27, 1870, which is comprised of tallow,

myrtle wax, Brazilian wax, beeswax, Japanese wax. German black-lead, American graphite, and asbestos,

Or, American graphite, myrtle wax, tallow, beeswax and Brazilian wax.

Or, German black-lead, asbestos, Japanese wax, tallow, and beeswax.

I then form another circular braid b', and again place a coating, P, of my compound, over which is formed the outer circular braiding b<sup>2</sup>, or a succession of braiding and my lubricating compound. This process is continued until I form the packing of the diameter desired.

A packing formed in this manner may be made of any size to suit the use intended, and is very pliable, and impervious to either steam or water, and possesses great durability.

I do not wish to claim forming a packing of a succession of braids, as I am aware that steam and hydraulic packing has been formed in that manner; but—

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

The arrangement of the central cords C or C', braids b, b', and b<sup>2</sup>, in combination with the compound P, composed of the ingredients set forth in my patent of December 27, 1870.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

WILLIAM M. CANFIELD.

Witnesses:

FRANK STOUT,

JOSEPH EVANS.