

*J. L. Collins and
H. C. Burgie,
Sheaves.*

N^o 75,735.

Patented Mar. 24. 1868.

Fig 1.

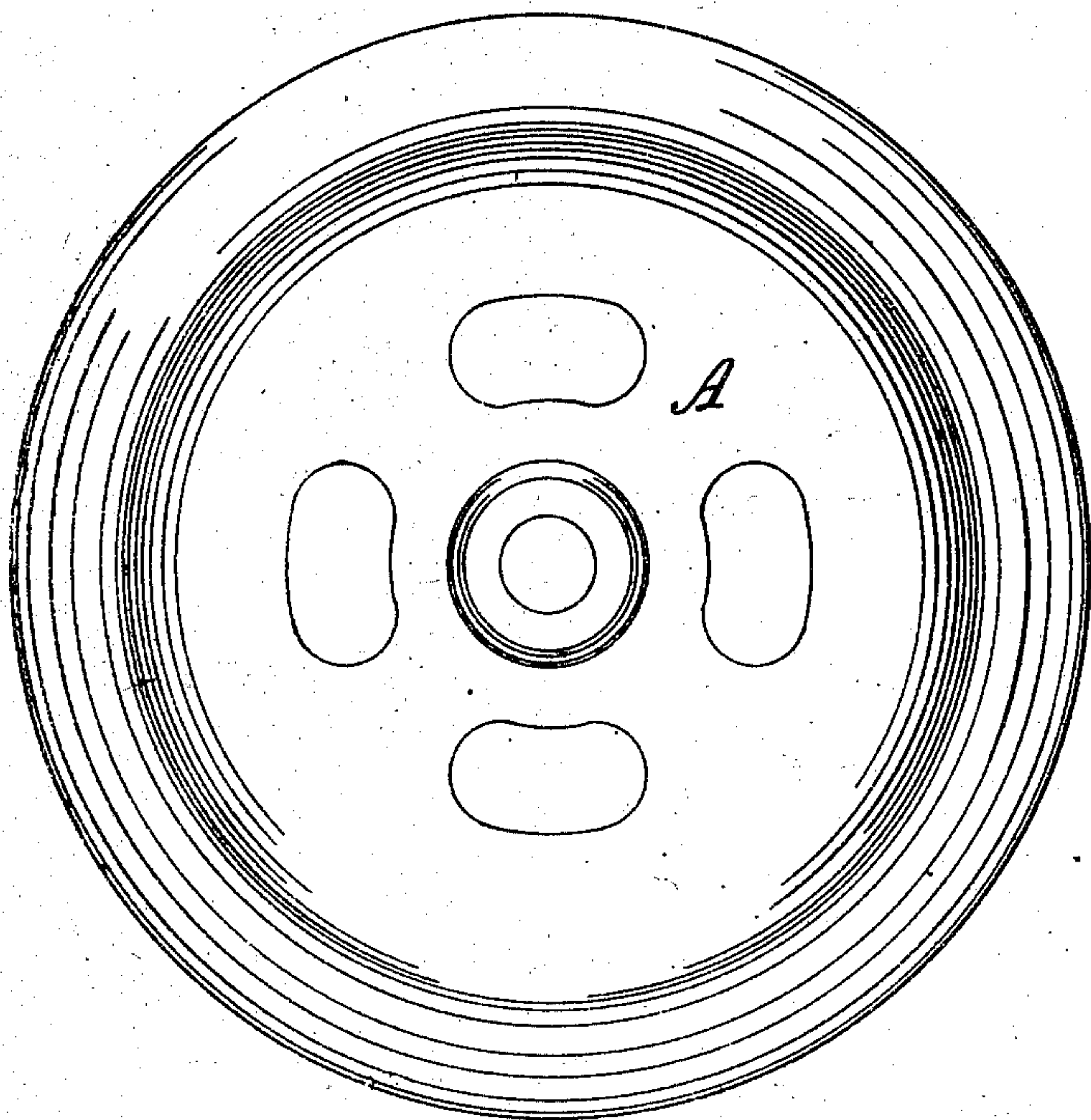


Fig 2.

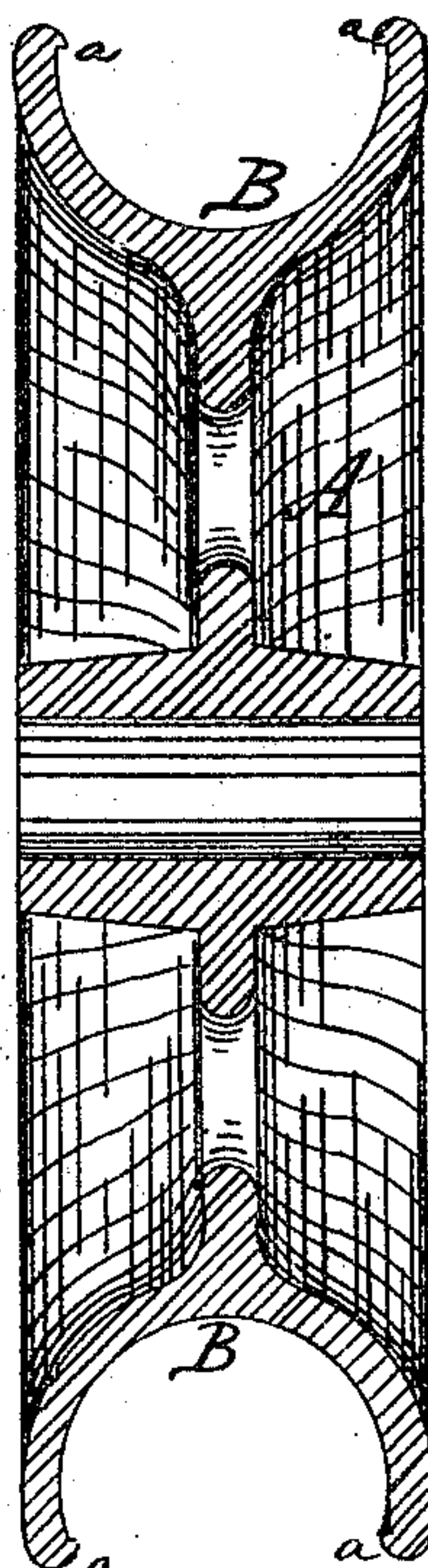
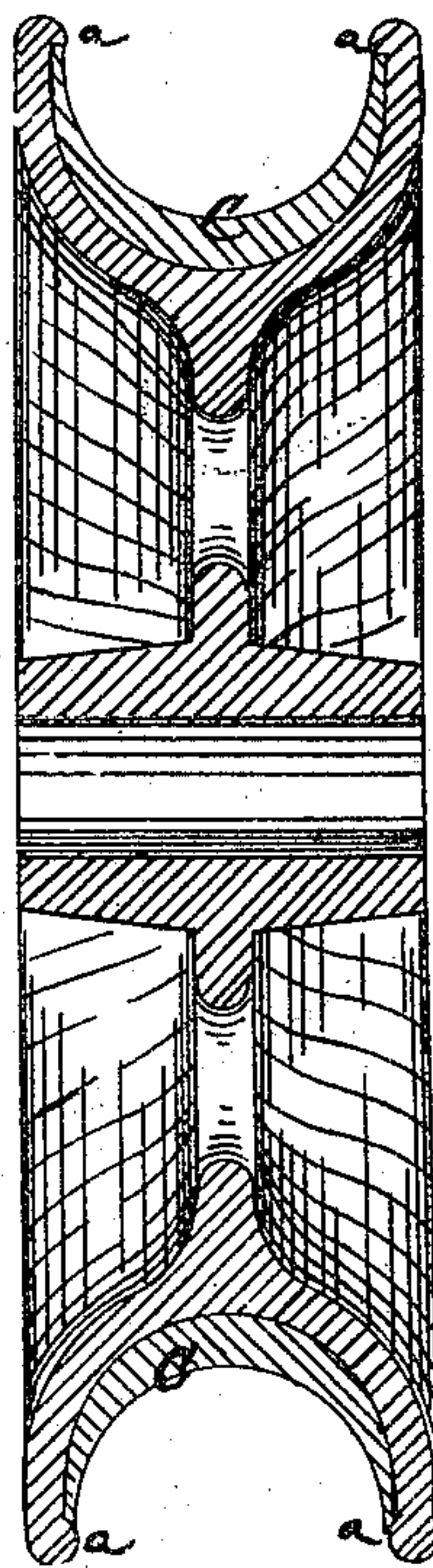


Fig 3.



Witnesses,

L. L. C. Krum

W. E. Maus

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Henry C. Burgie*

United States Patent Office.

JAMES L. COLLINS AND HENRY C. BURGIE, OF CHICAGO, ILLINOIS.

Letters Patent No. 75,735, dated March 24, 1868.

IMPROVEMENT IN SHEAVES.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, JAMES L. COLLINS and HENRY C. BURGIE, of Chicago, in the county of Cook, and State of Illinois, have invented a new and useful Improvement in Sheaves; and we do hereby declare and make known that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

Our said invention relates to an improved mode of constructing the sheave, whereby a facing or lining of soft metal, or composition of metals, may be applied in the groove around said sheave in which the cord runs, and be firmly and effectually secured therein, substantially as hereinafter described; and said invention consists in forming a rabbet in the face of the groove, or extending a flange in over the edge of the sheave, so as to form a shoulder, within and below which the soft metal or composition may be moulded and secured, as hereinafter set forth.

To enable those skilled in the art to understand how to construct and use our said invention, we will proceed to describe the same with particularity, making reference in so doing to the aforesaid drawings, in which—

Figure 1 represents a side view of our invention.

Figure 2 is a transverse section thereof, without the soft metal, and

Figure 3 is a similar view, with the soft-metal facing applied.

Similar letters of reference in the several figures denote the same parts of our invention.

A represents the sheave, which is of cast iron, or any other suitable material, B being the groove around the same, and C is the lining or facing of soft metal applied therein, for the rope or cord to run on, which has its edges fitting up under the lip or flange *a* upon the sheave, as clearly shown in fig. 3, said flange *a* forming a rabbet beneath, into which the soft metal fits, and is thus held securely and firmly in place, as desired.

The essential feature in this invention consists in forming the rabbet or recess, in that portion of the sheave in which the soft metal is run, to fit over and retain the soft-metal facing in place, and its form and mode of application may be varied, providing a retaining-flange be preserved over the edge of the soft metal.

Having described the construction and operation of our invention, we will now specify what we claim, and desire to secure by Letters Patent.

We claim, in the manufacture of sheaves, the formation of a rabbet or flange, *a*, in or upon that part of the sheave in which the soft metal is applied, substantially as and for the purposes set forth.

JAMES L. COLLINS,
HENRY C. BURGIE.

Witnesses:

L. L. COBURN,
W. E. MARRS.