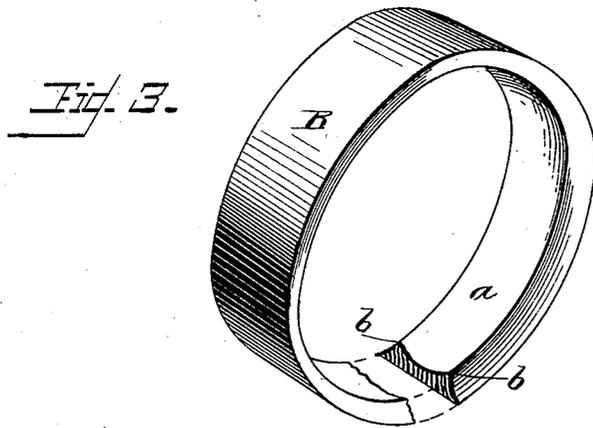
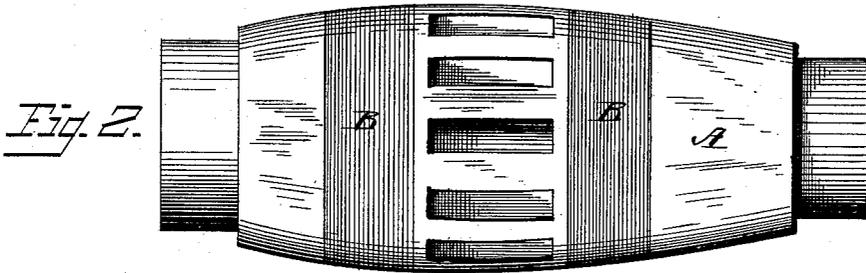
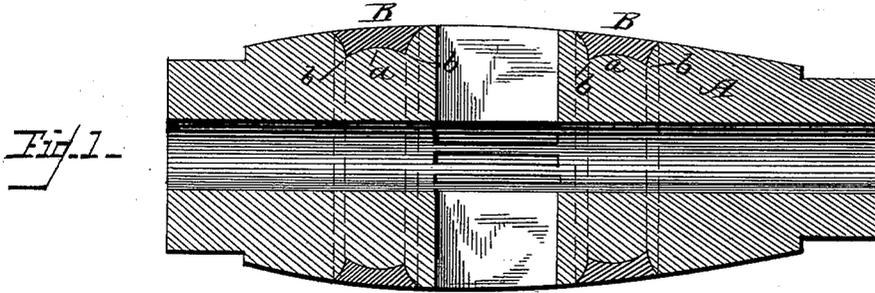


(No Model.)

W. GARDNER.  
BAND FOR VEHICLE HUBS.

No. 304,635.

Patented Sept. 2, 1884.



WITNESSES

*J. L. Orsmond*  
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INVENTOR

*William Gardner*  
per *Chas. H. Fowler*  
Attorney

# UNITED STATES PATENT OFFICE.

WILLIAM GARDNER, OF LANCASTER, ASSIGNOR OF ONE-HALF TO CHARLES  
H. NEIL, OF COLUMBUS, OHIO.

## BAND FOR VEHICLE-HUBS.

SPECIFICATION forming part of Letters Patent No. 304,635, dated September 2, 1884.

Application filed February 19, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM GARDNER, a citizen of the United States, residing at Lancaster, in the county of Fairfield and State of Ohio, have invented certain new and useful Improvements in Manufacture of Bands for Wooden Hubs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a longitudinal section of a wooden hub embodying my invention; Fig. 2, a side elevation of the same, and Fig. 3 a detail view in perspective of one of the metal bands partly in broken section, to show its form.

The present invention has reference to that class of wooden hubs provided with metal bands extending around its periphery.

The object of the invention is to so construct the metal band as will admit of its being pressed into place around the hub by hydraulic or other pressure, which object I attain by the form and construction of the band, substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents a wooden hub of the usual form and construction, and B the metal bands. These bands are concave upon their inner periphery, as shown at *a*, and upon each side of this concave is a wedge-shaped edge, *b*, formed

by the inclined sides of the band. After the band is placed over the hub as far as it will go it is forced down into the fibers of the wood by hydraulic or other pressure until the outer surface of the band is flush, or nearly so, with the surface of the hub. It should be understood that no grooves are previously made in the hub to receive the band, but the hub is first placed on end and the band afterward slipped over. The wedge-shape edges or points *b*, also the groove or concave portion *a* of the metal band, render it more readily pressed into place, the wedge-shape edges cutting their way into the fibers of the wood and driving them compactly into the space formed by the concave or groove. Thus when the band is driven in place it will firmly hold itself in position.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A metal band for wooden hubs having a groove or formed concave upon its inner periphery, and wedge-shape edges upon each side thereof, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM GARDNER.

Witnesses:

W. T. McCLENAGHAN,  
LOTTIE McCLENAGHAN.