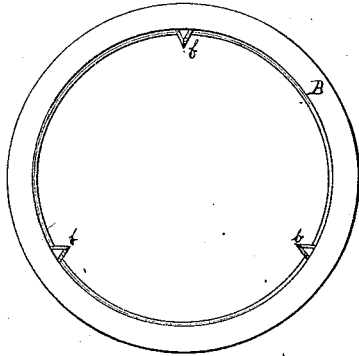


C. H. LIEDKE.  
Band for Hubs.

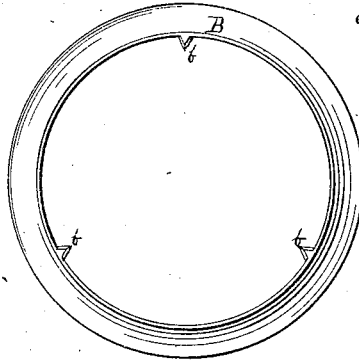
No. 164,310.

Patented June 8, 1875.

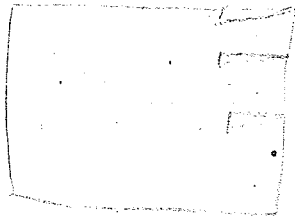
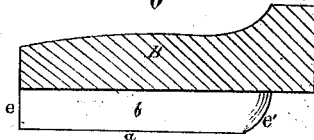
*Fig. 1.*



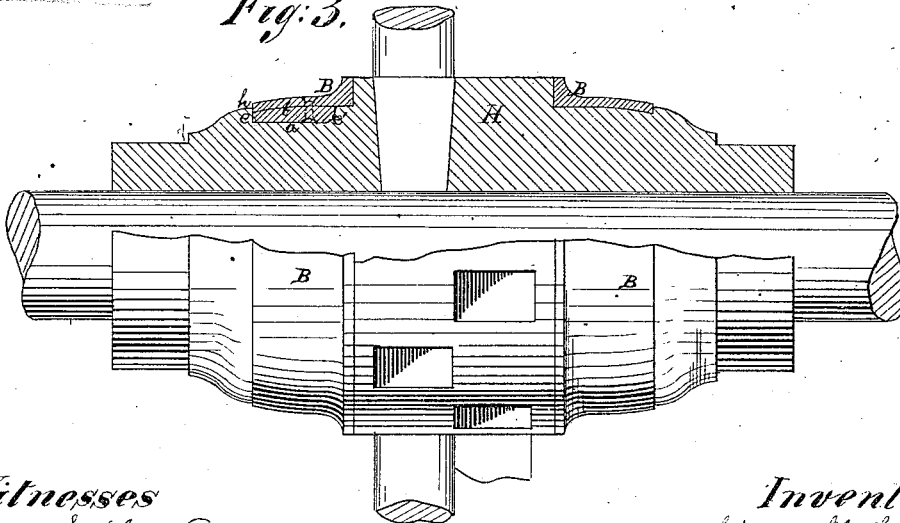
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



*Witnesses*  
*Henry Eichling.*  
*Ben. S. Clark.*

*Inventor.*  
*Charles H. Liedke*  
*per* *Rich. Rich*  
*his Atty.*

# UNITED STATES PATENT OFFICE.

CHARLES H. LIEDKE, OF VENICE, OHIO.

## IMPROVEMENT IN BANDS FOR HUBS.

Specification forming part of Letters Patent No. **164,310**, dated June 8, 1875; application filed April 8, 1875.

*To all whom it may concern:*

Be it known that I, CHARLES H. LIEDKE, of Venice, county of Erie, State of Ohio, have invented an Improved Fastening for Bands for Wheel-Hubs, of which the following is a specification, reference being had to the accompanying drawings forming part hereof.

My invention consists in the combination, with the interior surface of a band for wheel-hubs, of a number of wedge-shaped bars having their lower edges sharpened, their outer ends at right angles with their lower edges, and their inner ends rounded off and brought to a blunt edge, whereby, when the band is driven upon the body of the hub, the bars will, by means of their rounded blunt-edged inner ends, force or crowd a channel or groove in the wood of the hub without cutting entirely through or wholly breaking the wood fiber, and the wood will close together again over the right-angled outer ends, and thus operate to secure the bands firmly in place upon the hub.

Figure 1 is a rear elevation of a hub-band embodying my invention. Fig. 2 is a front elevation of the same. Fig. 3 is a side elevation of a hub, shown partly in section, with my band in place upon it; and Fig. 4 is a sectional view of the band on the line *x x*, Fig. 1, showing the peculiar shape of my bars.

B is the hub-band. *b b* are wedge-shaped bars, secured upon the interior surface of the band, as shown, and formed with the lower edge *a* sharpened, the outer end *e* at right angles with the lower edge *a*, and the inner end *e'* rounded off and brought to a blunt edge, as shown.

Now, it is evident that when the band B, provided with a number of these bars, constructed as described, is driven upon the hub H, as shown in Fig. 3, the rounded blunt-

edged inner end *e'* will operate to force or crowd a channel or groove for the bar in the wood of the hub without cutting entirely through or wholly breaking the wood fiber, and that the wood will close together again over the right-angled outer end *e*, as shown at *h*, thus operating to secure the band firmly in place upon the hub without the necessity of other fastening, the band thus set being prevented from turning upon the hub by the edges *a*, embedded in the wood, and being prevented from shaking loose and coming off the hub by the right-angled outer ends *e*, closed over by the wood of the hub at *h*.

I am aware that bands provided with wedge-shaped projections have been heretofore used upon wheel-hubs to obviate the turning of the bands on the hub, but necessitating the use of screws or other means to hold the band in place, and keep it from falling off. I do not, therefore, claim broadly the combination with a hub-band of wedge-like projections, but limit myself to the invention herein specifically shown and described—that is to say, to the combination, with such a band, of the wedge-shaped bars *b*, formed with the sharpened lower edge *a*, the right-angled outer end *e*, and the rounded blunt-edged inner end *e'*, whereby the band may be securely held in place upon the hub without other fastening.

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

As a fastening for wheel-hub bands, the combination, with the band B, of the wedge-shaped bars *b*, having sharpened lower edge *a*, right-angled outer end *e*, and rounded blunt-edged inner end *e'*, substantially as set forth.

CHARLES H. LIEDKE.

Witnesses:

CHARLES W. SADLER,  
E. B. SADLER.