

W. W. LOBDELL.
CASTING GROOVED PULLEYS.

No. 191,983.

Patented June 12, 1877.

Fig. 1.

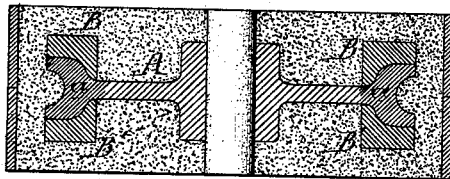
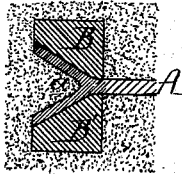


Fig. 2.



Witnesses
Henry Howson, Jr.
Harry Smith

William W. Lobdell
by his Attorneys
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UNITED STATES PATENT OFFICE.

WILLIAM W. LOBDELL, OF WILMINGTON, DELAWARE.

IMPROVEMENT IN CASTING GROOVED PULLEYS.

Specification forming part of Letters Patent No. **191,983**, dated June 12, 1877; application filed April 21, 1877.

To all whom it may concern:

Be it known that I, WILLIAM W. LOBDELL, of Wilmington, Delaware, have invented an Improvement in the Manufacture of Grooved Wheels or Pulleys, of which the following is a specification:

My invention consists of a mode of manufacturing cast-iron wheels having rims with hardened grooves, as more fully described hereafter.

In the accompanying drawing, Figure 1 is a vertical section of a mold for casting a wheel of the kind referred to above, and Fig. 2 a part of a mold for casting chain or rope wheels with deep grooves.

A represents in section the wheel as it appears when cast in the mold, *a* being the grooved rim of the wheel, and B B' two annular chills, so arranged in the mold that when the wheel is cast the chills will be adapted to the inner circumference of the rim on opposite sides of the wheel, as shown in the drawing.

The effect of these chills on the molten metal will be to produce a hardened rim, the hard metal extending through to the groove or outer circumference of the rim, which will consequently resist the frictional action more effectually than ordinary unchilled cast-iron.

The method of employing opposite annular chills B B' in casting wheels with deep grooves will be readily understood by reference to Fig. 2 without explanation.

I claim as my invention—

The chills B B', adapted to the inner circumference of the rim of a grooved pulley, for the purpose of chilling the groove on the outer circumference of the pulley, as set forth.

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

WILLIAM W. LOBDELL.

Witnesses:

JAMES H. CAMERON,
GEO. G. LOBDELL, Jr.