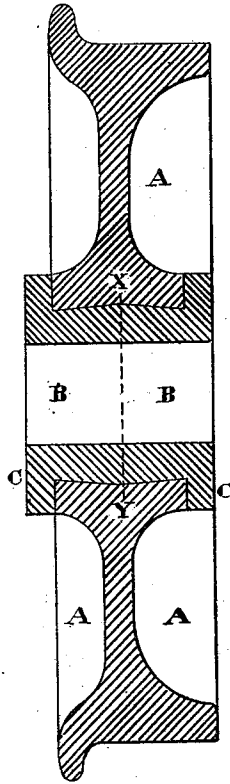


J. McALLISTER.  
CASTING CAR-WHEELS.

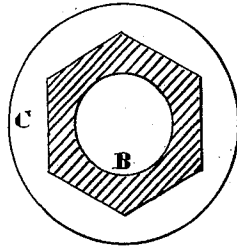
No. 180,048.

Patented July 18, 1876.

**Fig. 1**



**Fig. 2**



### Witnesses

John W. Parker  
Charles Holland

**Inventor**

James M'Allister

# UNITED STATES PATENT OFFICE.

JAMES McALLISTER, OF GOLD HILL, NEVADA.

## IMPROVEMENT IN CASTING CAR-WHEELS.

Specification forming part of Letters Patent No. **180,048**, dated July 18, 1876; application filed September 27, 1875.

### *To all whom it may concern:*

Be it known that I, JAMES McALLISTER, of Gold Hill, State of Nevada, have invented a new Method of Constructing Car-Wheels and Rollers, of which the following is a specification:

The invention is an improvement in the class of car-wheels having a soft cast-iron hub and hardened rim.

The invention consists in the construction of certain portions of the contact-surface of the hub and rim, as and for the purpose hereinafter specified.

Figure 1 is a central cross-section of the wheel; and Fig. 2, a cross-section of the hub on line *x y*, Fig. 1.

The wheel is cast in two separate and distinct pieces, A being one, and B the other. The center, B, is cast first, and is made of soft iron, so as to be easily bored. The exterior of this center piece is hexagonal, as shown

in Fig. 2. The center piece B is inserted in the mold of the main part of the wheel A in place of a core, which main part of the wheel can then be cast of the hardest iron attainable.

I make the center piece B tapering on the outside from the center each way toward the collars C C, as shown in Fig. 1. This is so that as the part A contracts the tighter it will hold the center B.

I claim as my invention—

The improved car-wheel, formed of the hub or center piece B, having a hexagonal body, tapered each way from the center, and the hardened rim or body A, fitting said tapered portion of the hub, as shown and described.

JAMES McALLISTER.

Witnesses:

JOHN W. PARKER,  
CHARLES HOLLAND.