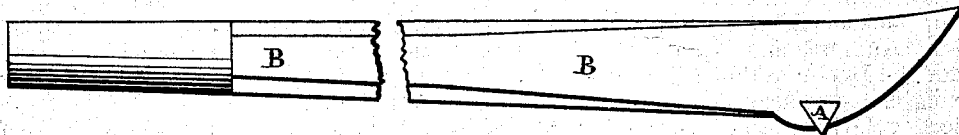


A. V. BERRY.

Crow-Bars.

No. 146,640.

Patented Jan. 20, 1874.



Witnesses,

J. S. Bird  
Geo. W. Mickle.

Inventor,

Abram V. Berry

# UNITED STATES PATENT OFFICE.

ABRAM V. BERRY, OF JACKSON, MICHIGAN.

## IMPROVEMENT IN CROW-BARS.

Specification forming part of Letters Patent No. **146,640**, dated January 10, 1874; application filed November 24, 1873.

*To all whom it may concern:*

Be it known that I, ABRAM V. BERRY, of Jackson, Jackson county, Michigan, have invented an Angular and Adjustable Steel Fulcrum for the Heel of a Pinch-Bar, of which the following is a specification:

The object of the invention is to prevent the sliding or slipping of a pinch-bar on a railroad track or rail when used for the moving of cars and for various other uses. The invention consists of an angular piece of steel inserted in a transverse slot in the heel of a pinch-bar, forming the fulcrum of the bar, and which presents an angular edge of about one-eighth of an inch above the surface of the heel of the bar. When this angle comes worn, the fulcrum can be easily taken out and replaced, so as to present one of the other angles or edges; also, when the second edge becomes worn, it may again be changed; and, in the event of all the angles becoming worn, a new fulcrum can be substituted at a trifling expense.

The angles of the fulcrum may be either obtuse, rectangular, or acute.

The one represented in the drawing hereto attached is an equilateral triangle.

In the drawing hereunto attached, A represents the angular slot and steel fulcrum for which Letters Patent are asked; B B, the pinch-bar.

The benefits of this invention are claimed to be its cheapness, its efficiency, the ease and facility with which one angle or one fulcrum can be substituted for another.

The adjustable fulcrum in the heel of a pinch-bar is believed to be novel and useful.

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

A pinch-bar having an angular detachable steel fulcrum, A, substantially as and for the purpose described.

ABRAM V. BERRY.

Witnesses:

MELVILLE MCGEE,

WM. SEWARD GRIDLEY.