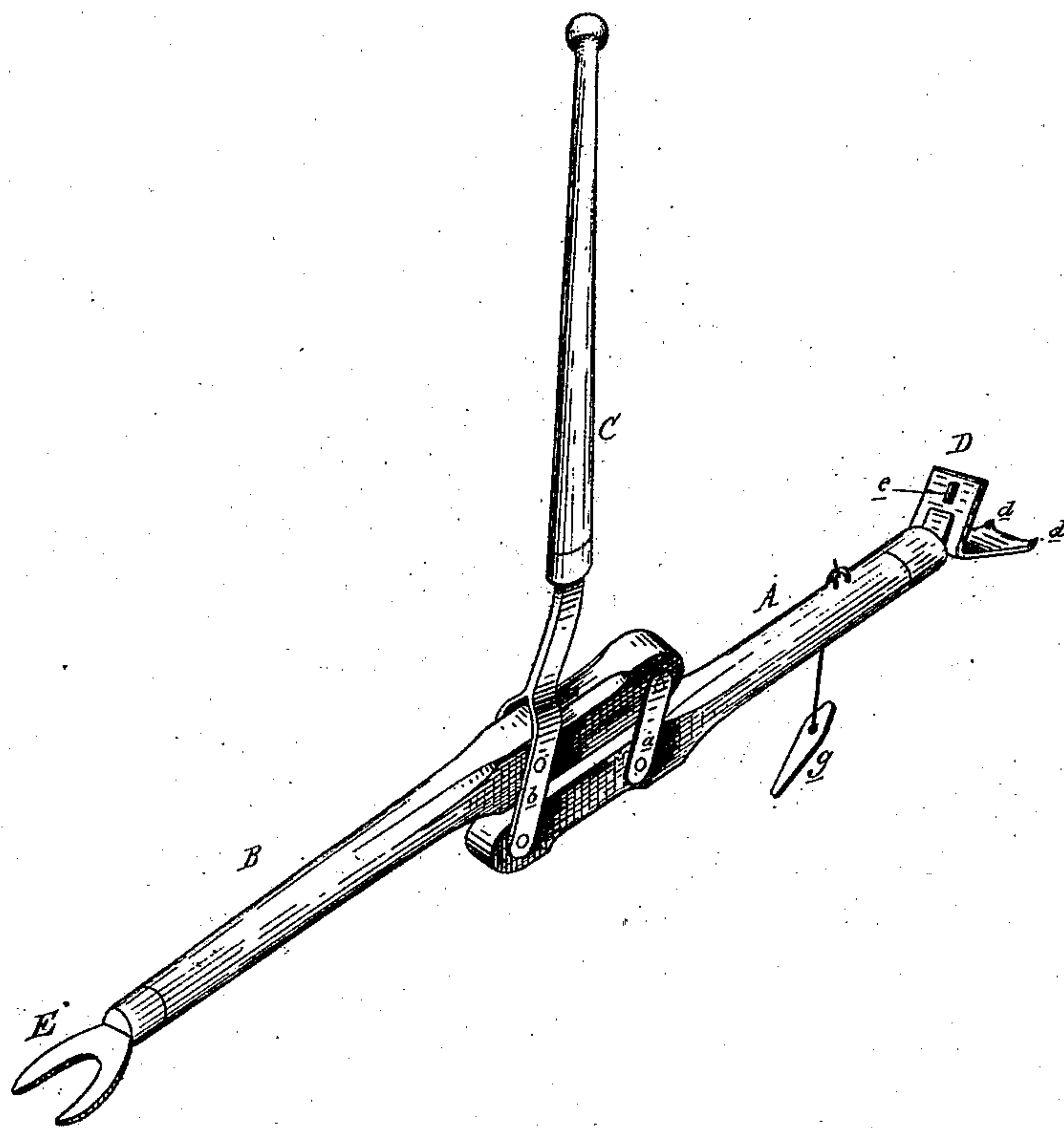


H. S. WILLIS.
Device for Shunting Car.

No. 214,738.

Patented April 22, 1879.



Attest:

A. Barthel
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H. S. Willis
By Atty
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UNITED STATES PATENT OFFICE.

HENRY S. WILLIS, OF ONONDAGA, MICHIGAN.

IMPROVEMENT IN DEVICES FOR SHUNTING CARS.

Specification forming part of Letters Patent No. **214,738**, dated April 22, 1879; application filed December 5, 1878.

To all whom it may concern:

Be it known that I, HENRY S. WILLIS, of Onondaga, Ingham county, Michigan, have invented an Improvement in Devices for Shunting Cars, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of devices to be used in shunting railway-cars; and the invention consists in the peculiar construction, arrangement, and combination of the various parts, all as more fully hereinafter described.

In the accompanying drawing, which forms a part of this specification, and in which my invention is shown in perspective, A B represent two parallel bars, the overlapping ends of which are pivoted together by means of the swinging arms *a b*, the latter of which terminates in a handle or lever, C, as shown, and by means of which the device is operated.

To the free end of the bar A is rigidly secured an angle-plate, D, the corners of one side of which are provided with studs or spurs *d*, which engage with the body of a car, while the opposite side of this plate is provided with a slot, *e*, through which a key or pin, *g*, is driven into the car-body, securing that end of the device rigidly to the car.

The free end of the bar B is provided with a fork, E, which is designed to engage with the rail.

In practice the device is secured to the car as above described, the fork E engaging with the rail. As the lever-handle is depressed the bar A is caused to advance, and with it the car is pushed ahead. As the lever is pushed back into its original position the bar B is drawn forward, when, by again depressing the lever, the car is moved forward, as before, this operation being repeated until the car is brought to the desired point.

What I claim as my invention is—

1. A device for shunting cars, consisting of two parallel bars, A B, connected together by pivoted swinging arms *a b*, the latter of which terminates in a handle, C, substantially as and for the purposes set forth.

2. In a device for shunting cars, substantially as described, the combination of the parallel bars A B, the former being provided at its free end with a device for engaging with the body of a car, and the latter with a device for engagement with the rail, with the pivoted swinging arms *a b*, and handle C, when constructed, arranged, and operating substantially as and for the purposes specified.

HENRY S. WILLIS.

Witnesses:

H. S. SPRAGUE,
A. BARTHEL.