

P. PRAECHTER.
Car-Truck.

No. 214,700.

Patented April 22, 1879.

Fig. 1.

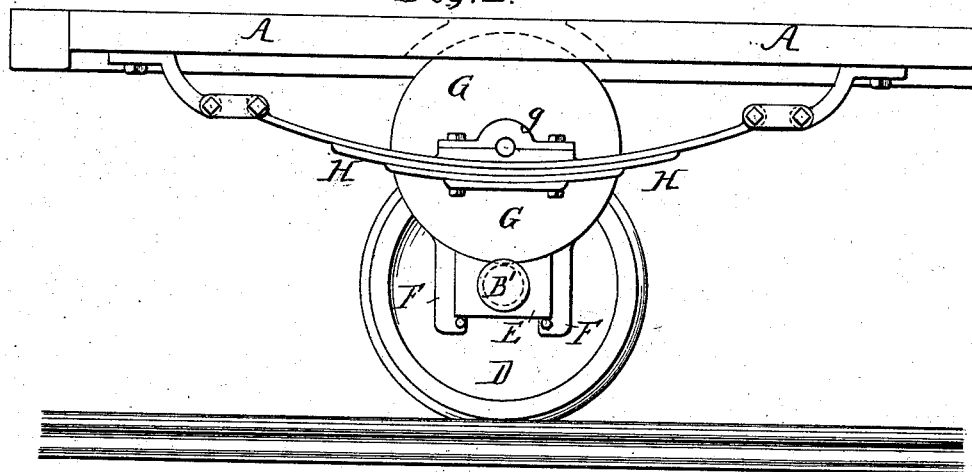
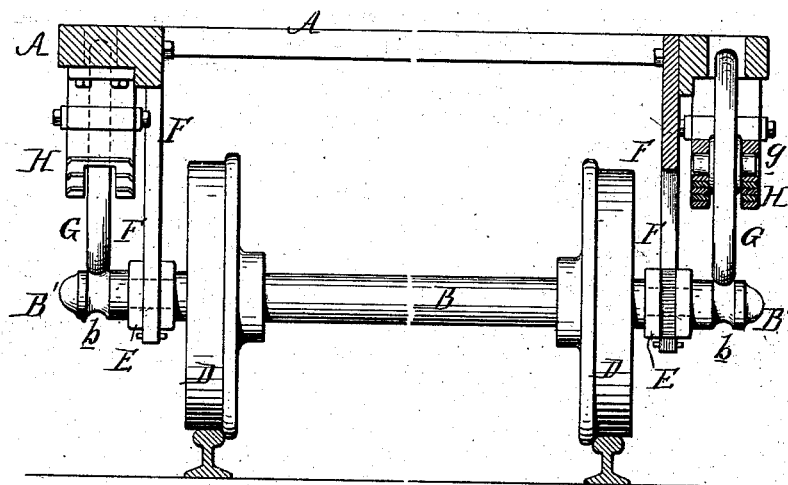


Fig. 2.



WITNESSES

Henry Howson Jr.
Harry Smith

INVENTOR

Philip Praechter
by his Attorneys
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UNITED STATES PATENT OFFICE.

PHILIPP PRAECHTER, OF HEIDELBERG, BADEN, GERMAN EMPIRE.

IMPROVEMENT IN CAR-TRUCKS.

Specification forming part of Letters Patent No. **214,700**, dated April 22, 1879; application filed March 6, 1879.

To all whom it may concern:

Be it known that I, PHILIPP PRAECHTER, of Heidelberg, Baden, Empire of Germany, have invented an Improved Bearing for Railway and other Axles, of which the following is a specification.

The object of my invention is to relieve the journals of car-axles and the journal-boxes from the friction to which they are usually subjected, by supporting the car on the axles through the medium of anti-friction rollers having bearings controlled by the springs, substantially in the manner described hereinafter.

Figure 1 is a side view, showing a portion of the frame of a car or car-truck, and illustrating my invention; and Fig. 2, an end view, partly in section.

A is the frame on which the car-body rests; B, one of the car-axles, and D D the usual flanged wheels. That portion of the axle which projects beyond each wheel has a journal adapted to a box, E, fitted to the usual hanger F. These boxes do not serve the purpose of ordinary bearings, but merely to maintain the axle in its proper position on the frame.

On each end of the axle is formed an extension, B', having a groove, *b*; and in this groove rests the periphery of an anti-friction roller, G, the spindle of which is provided with jour-

nals adapted to bearings *g*, secured independently of the hanger F to the elliptical spring H, on which the car-frame A is supported. This elliptic spring is slotted for the reception of the roller G, as shown in Fig. 2; or there may be two elliptical springs, one on each side of the roller.

It will be seen that the axle and boxes are relieved from friction, as the car-body is supported by the axle through the medium of anti-friction rollers and springs.

Different kinds of springs may be used in connection with the anti-friction rollers.

I am aware that it has been heretofore proposed to support cars on axles through the medium of anti-friction rollers and springs. This, therefore, I do not desire to claim; but

I claim as my invention—

The combination of a car or truck frame, its axles, and guided boxes with anti-friction rollers G, adapted to bearings secured independently of the hangers directly to elliptic springs H, supporting the frame, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of November, 1878.

PH. PRAECHTER.

Witnesses:

FRANZ WIRTH,
FRANZ HASSLACHER.