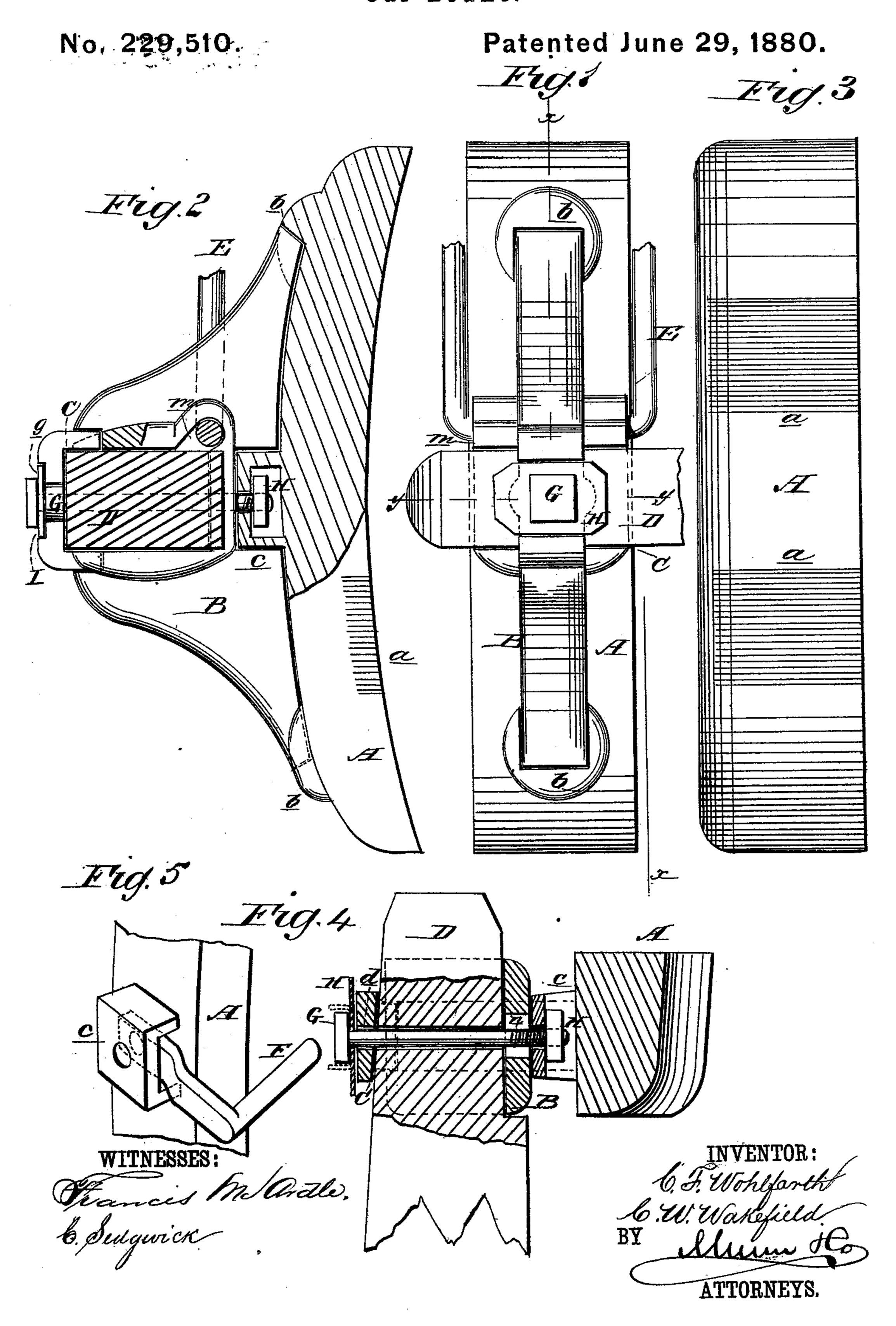
(No Model.)

C. F. WOHLFARTH & C. W. WAKEFIELD. Car Brake.



United States Patent Office.

CHARLES F. WOHLFARTH AND CLOVIS W. WAKEFIELD, OF NORWICH, CONN.

CAR-BRAKE.

SPECIFICATION forming part of Letters Patent No. 229,510, dated June 29, 1880.

Application filed May 3, 1880. (No model.)

To all whom it may concern:

Be it known that we, CHAS. F. WOHLFARTH and CLOVIS WILLARD WAKEFIELD, of Norwich, in the county of New London and State 5 of Connecticut, have invented a new and Improved Brake-Clog, of which the following is a specification.

The object of this invention is to provide a stronger and more durable brake-clog than

10 those now in ordinary use.

One of the principal defects in an ordinary brake is that the shoe is fastened to the clog by bolts or keys that in a short time become loose, thereby causing a disagreeable rattling 15 and increased expense and labor for repair, and the clog, in time, also works loose on the brake-bar, because of the shrinking of the latter; and in ordinary brakes the brake-guide ordinarily consists of a straight piece of iron 20 fastened to the end of a brake-bar itself, and consequently the guide does not always operate effectively.

Figure 1 is a plan of the device. Fig. 2 is a sectional side elevation of the same on line 25 x x, Fig. 1. Fig. 3 is a plan of the face of the brake-shoe. Fig. 4 is a cross-section on line y y, Fig. 1. Fig. 5 is a perspective view of a portion of the clog, showing the brake-guide

in position.

Similar letters of reference indicate corre-

sponding parts.

In the drawings, A represents the brakeshoe, its curved face being chilled at certain points a a, while the iron on each side of the 35 chills remaining soft, hugs the car-wheel, and yet cannot wear faster than permitted by the chills, the said chills causing the shoe to wear one-third longer than any ordinary brake-shoe and involving no extra expense in casting. 40 On the back of the said shoe A, and near each

end thereof, are the socketed lugs or stops b b, and centrally on the back of said shoe A is

formed a raised rectangular loop, c.

B is the brake-yoke, cut away centrally on 45 its under side to fit over and upon the loop c, said yoke B having its ends prolonged and entered and tightly fitted into the sockets of the stops b b. A socket, C, for the reception of the end of the brake-bar D, is formed trans-50 versely through said yoke B, the sides and bottom of said socket C being extended later-

ally to afford better bearings for said brake-bar. A link, E, whereby the said brake-clog is suspended in position, is engaged in a groove, m,

that is offset in the socket C.

F is a brake-guide, designed to prevent the brake-bar from swinging out of place when passing round a curve; and it consists of a bar of iron, preferably round, bent at right angles and having one end flattened and bored and 60 entered at the loop c on the back of the shoe A, so that its other end shall project forward beyond the edge of the said shoe A, as shown in Fig. 5, and engage against the flange of the wheel when the car goes around a curve. 65

To secure the parts of this brake-clog together a bolt, G, is passed down through a hole, d, formed centrally in the top of the yoke B, through the oblong opening n in the bar D, the bottom of the socket C, and into the loop 70 c of the shoe A, and screwed into a nut, H, or, when the guide F is used, into said guide, which serves as an equivalent to the nut H in holding the end of the bolt G, neither nut nor guide being able to turn within the loop c. 75 The oblong opening n at the bottom of the socket C prevents the threads of the bolt G from being injured by any strain upon them.

In a groove, g, formed around the bolt-hole in the yoke B, a plate of sheet metal, I, is laid 80 down, through which the bolt G is passed, and the ends of said plate I are turned up about the head of said bolt G to lock the bolt securely against turning.

Having thus described our invention, we 85 claim as new and desire to secure by Letters

Patent—

1. In a brake-clog, the combination, with the shoe A, provided with loop c, of the right-angled brake-guide F, substantially as herein 90 shown and described.

2. The combination, with the shoe A and yoke B, of the screw-bolt G and brake-guide F, substantially as herein shown and described, whereby the said shoe and yoke are held to- 95

gether, as set forth.

CHARLES FREDERICK WOHLFARTH. CLOVIS WILLARD WAKEFIELD.

Witnesses:

DAVID YOUNG, WENDELL GLASSER.