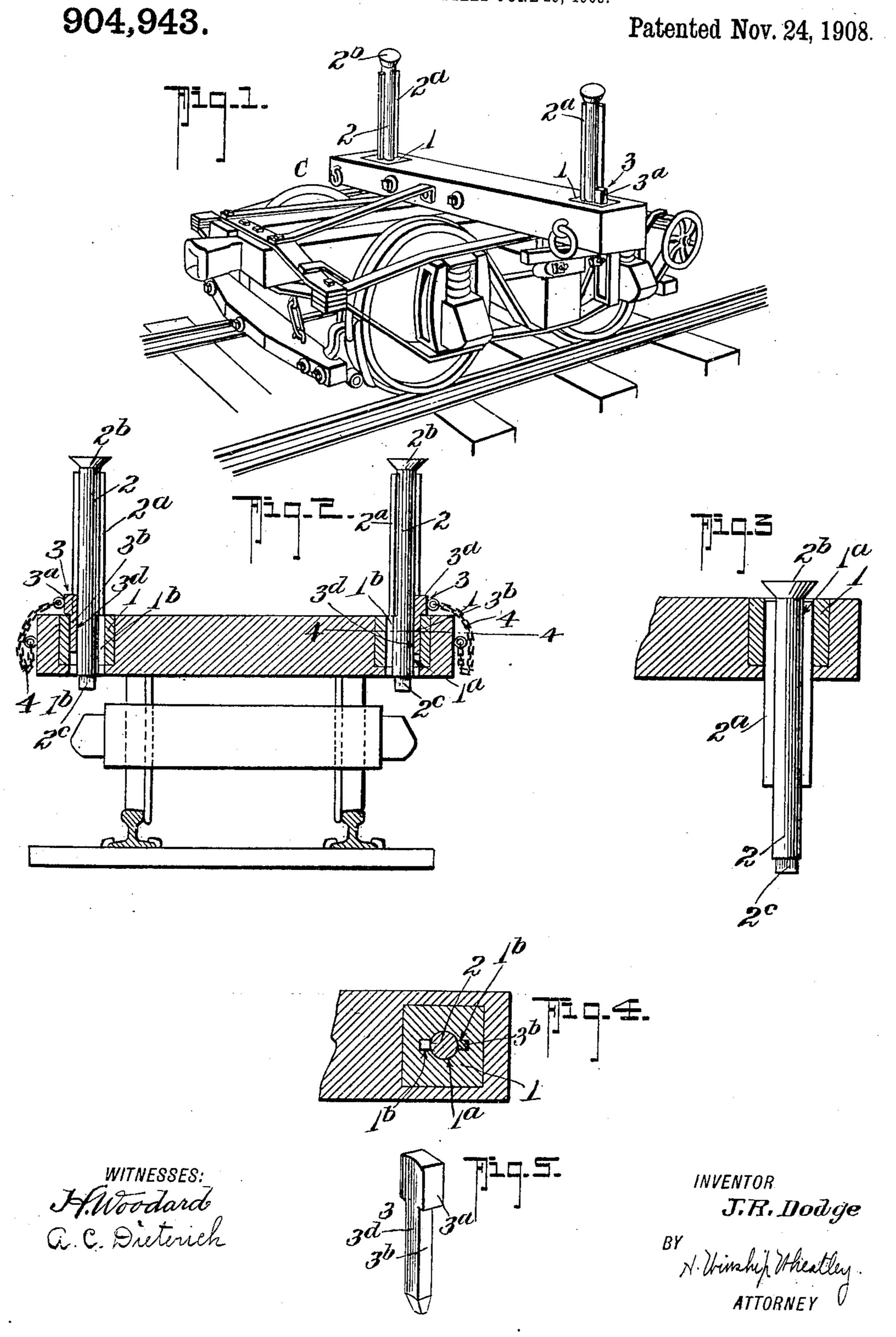
J. R. DODGE.

LOGGING CAR STAKE.

APPLICATION FILED JUNE 25, 1908.



UNITED STATES PATENT OFFICE.

JOHN R. DODGE, OF ELMA, WASHINGTON.

LOGGING-CAR STAKE.

No. 904,943.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed June 25, 1908. Serial No. 440,392.

To all whom it may concern:

Be it known that I, John R. Dodge, residing at Elma, in the county of Chehalis and State of Washington, have invented certain | with the slot 1b, and in order to prevent the 60 5 new and useful Improvements in Logging-Car Stakes, of which the following is a specification.

My invention relates to certain new and useful improvements in logging car stakes, 10 and it primarily seeks to provide a stake which can be readily raised or lowered to place it in its operative or inoperative position, and to provide means for holding the same in its raised or operative position.

Another object of this invention is to provide an improved construction of car stake which can be easily and cheaply manufactured, and which will readily and effectively serve its intended purposes, and which can 20 be easily attached to the ordinary type of

car. Other objects of my invention will be readily apparent to those skilled in the art to which it appertains, and the invention 25 also includes those novel details of construction, combination and arrangement of parts all of which will be first fully described and then be specifically pointed out in the appended claims, reference being had to the 30 accompanying drawing, in which:

Figure 1, is a perspective view showing the application of my invention. Fig. 2, is a cross section of a car with my invention applied. Fig. 3, is a detail view showing 35 the position of the parts when the stake is lowered. Fig. 4, is a horizontal section on the line 4—4 of Fig. 2. Fig. 5, is a detail perspective view of one of the locking pins.

Referring now to the accompanying draw-40 ings, in which like letters and numerals of reference indicate like parts in all of the figures, 1 represents the stake block which is adapted to be fitted into the ordinary car pocket of the car C and which is provided with a longitudinal vertically disposed circular aperture 1a, having grooves 1b at diametrically opposite points and running the full length of the aperture from end to end of the block to coöperate with the flange or | block to permit the stake to drop to its 105 wing 2^a of the stake 2, the wings 2^a serving | lower position said stake being rotatable in to enter the grooves 1^b at times.

The stake 2 has a head 2b and the wings or flanges 2ª and at its lower end the stake 2 is provided with a squared portion 2° to receive a wrench or other tool by means of which the stake may be turned.

When the stake is in its raised position, the wings 2a are at right angles to the slot 1b or in any other position except in alinement stake working around with the wings 2ª in alinement with the slot 1^b when in its raised position, I provide a pin 3 that is adapted to fit in the slot 1^b and the pin 3 is provided with a head portion 3ª of greater cross sec- 65 tional area than that of the slot 1b, and a shank portion 3^b of the same cross sectional area as the slot 1a, the pin 3 having its stake engaging face 3d curved to coincide with the contour of the stake.

In the practical application of my invention, when it is desired to load logs on a car, the stake 2 is raised with the wings 2a out of the slot 1^b and the pin 3 is inserted in the slot.

When it is desired to lower the stake, it is only necessary to remove the pin 3 and take a wrench or other suitable tool and fit it on the squared end 2° of the stake, give the stake a turn sufficient to bring the wings 2ª 80 into alinement with the groove 1b, when the stake will drop down into the position shown in Fig. 3.

In order that the pin 3 may not be lost it is secured to the block 1 by a chain 4, or 85 in any other suitable manner, if desired.

From the foregoing description taken in connection with the accompanying drawings, it is thought the complete construction, operation and advantages of my invention 90 will be readily understood by those skilled in the art to which the invention appertains, and I desire to say that numerous slight changes in the detail construction, design and arrangement of parts may be readily 95 made without departing from the spirit of the invention, or the scope of the appended claims.

What I claim is:

1. In a car stake, the combination with 100 the stake block having a longitudinal aperture, of a stake passing therethrough, means carried by the stake to maintain it in its elevated position, and means carried by the said aperture when the stake is in its elevated position.

2. The combination with the car block having a longitudinal aperture and a groove 110 merging therewith, of a stake passing through said aperture and rotatable therein

when in one position, said stake having a wing to enter said groove when in another

position.

3. In a logging car stake, the combination 5 with the car carried block having a longitudinal aperture and a longitudinal groove merging therewith, of a stake passing through said aperture and having a wing to coöperate with said groove, means for fill-10 ing said groove when the stake is in one position to prevent the wing entering the groove, substantially as shown and described.

4. In a logging car stake, the combination with the block having a longitudinal aper-15 ture and a pair of diametrically opposite grooves merging with said aperture, of a stake passing through said block and having wings to coöperate with said grooves, said stake extending beyond said wings, whereby 20 when the stake is in its elevated position the wings will be out of the groove, and means for filling one of said grooves to prevent the wings entering the grooves when the stake is in the elevated position.

5. In a logging car stake, the combination with the block having a longitudinal aperture and a pair of diametrically opposite grooves merging with said aperture, of a stake passing through said block and having 30 wings to coöperate with said grooves, said stake extending beyond said wings, whereby

when the stake is in its elevated position the wings will be out of the groove, means for filling one of said grooves to prevent their

35 wings entering the grooves when the stake is in the elevated position, said stake having

a wrench receiving portion and means by which it may be turned.

6. In a logging car stake, the combination with the block having a longitudinal aper- 40 ture and a pair of diametrically opposite grooves merging with said aperture, of a stake passing through said block and having wings to coöperate with said grooves, said stake extending beyond said wings, whereby 45 when the stake is in its elevated position the wings will be out of the groove, means for filling one of said grooves to prevent their wings entering the grooves when the stake is in the elevated position, said stake having 50 a head of greater diameter than the aperture in the block.

7. In a logging car stake, the combination with the block having a longitudinal aperture and a pair of diametrically opposite 55 grooves merging with said aperture, of a stake passing through said block and having wings to cooperate with said grooves, said stake extending beyond said wings, whereby when the stake is in its elevated position the 60 wings will be out of the groove, means for filling one of said grooves to prevent their wings entering the grooves when the stake is in the elevated position, said stake having a wrench receiving portion and means by 65 which it may be turned, said stake having a head of greater diameter than the aperture in the block.

JOHN R. DODGE.

Witnesses:

E. S. AVEY, J. F. NICHOLSON.