A. BOBERG.

WAGON JACK.

APPLICATION FILED JAN. 30, 1911.

1,017,500.

Patented Feb. 13, 1912.

2 SHEETS—SHEET 1.

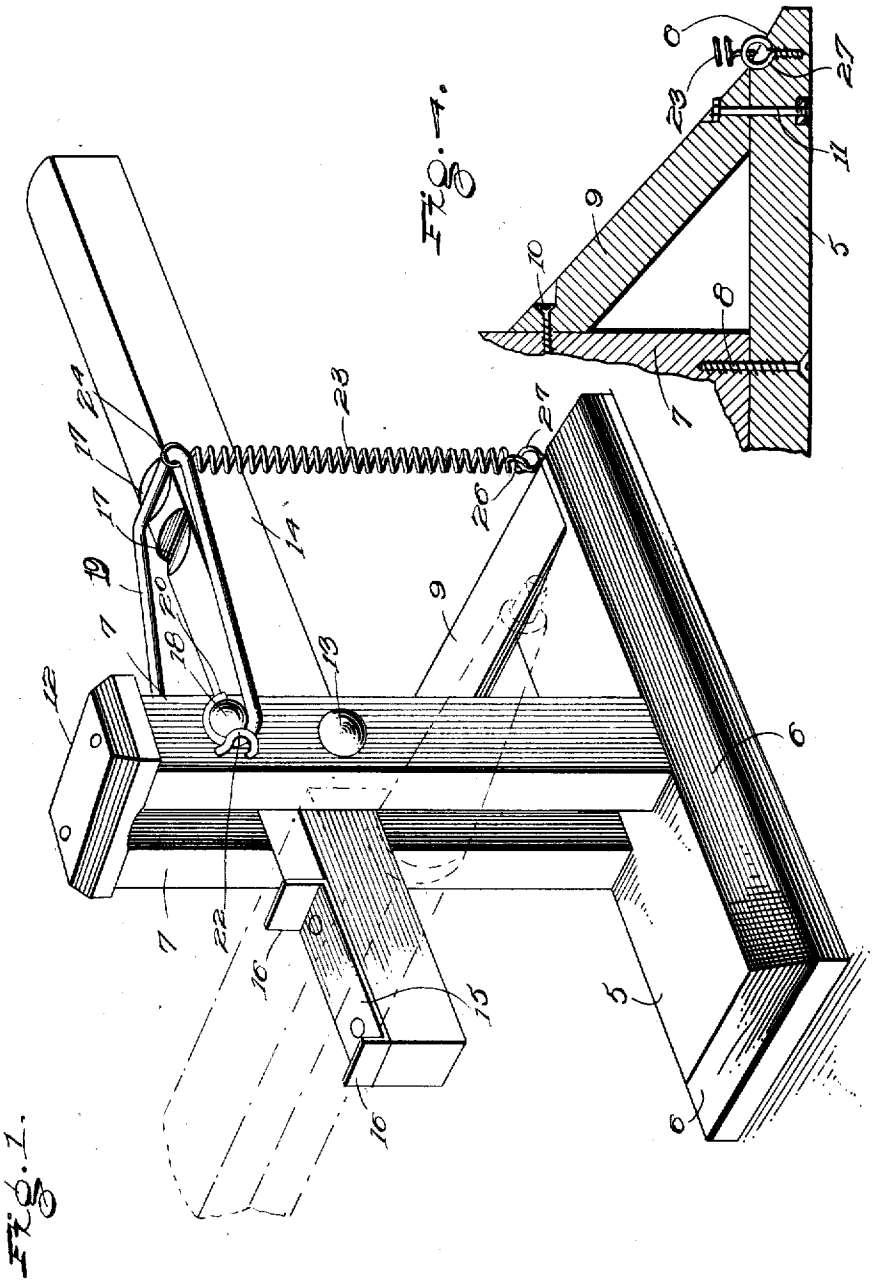

Fig. 1.

Fig. 4.

Witnesses

J. N. Nelle

H. Goodwyn

Inventor

Amos Boberg.

By E. G. Crooman, his Attorney.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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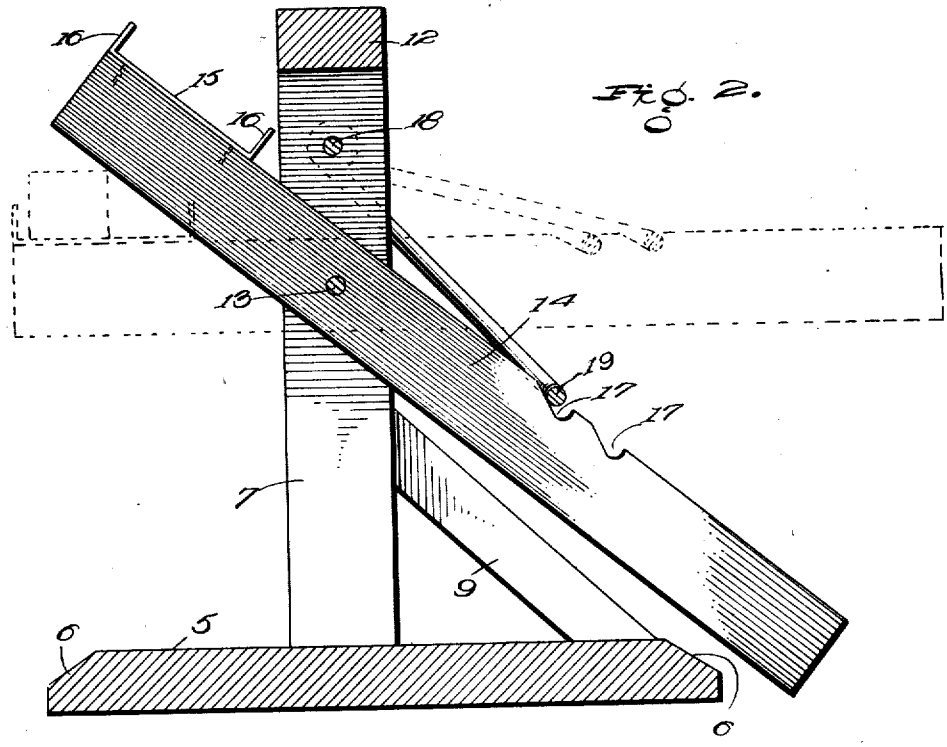

Fig. 2.

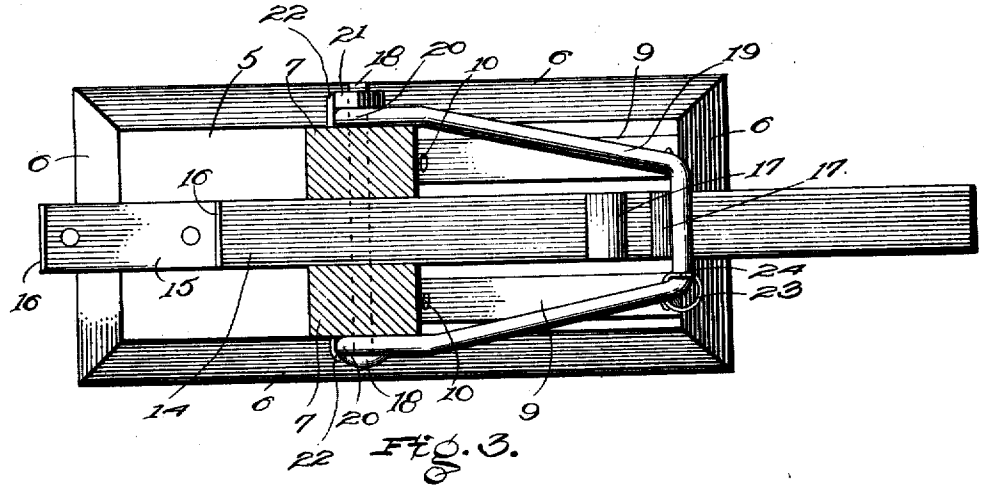

Fig. 3.

Witnesses

J. W. Mills

H. Howard Doyle

Inventor

Amos Boberg.

By E. E. Broomans his Attorney.

UNITED STATES PATENT OFFICE.

AMOS BOBERG, OF CAMBRIDGE, ILLINOIS.

WAGON-JACK.

1,017,500. Specification of Letters Patent. Patented Feb. 13, 1912.

Application filed January 30, 1911. Serial No. 605,504.

To all whom it may concern:

Be it known that I, AMOS BOBERG, a citizen of the United States, residing at Cambridge, in the county of Henry and State of Illinois, have invented certain new and useful Improvements in Wagon-Jacks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to lifting jacks especially adapted for use in connection with vehicles, and the principal object of the same is to provide a strong and serviceable jack that can be used for heavy work and which is provided with simple means for locking the lifting lever in the desired supporting position.

In carrying out the objects of the invention generally stated above it will be understood, of course, that the essential features thereof are necessarily susceptible of changes in details and structural arrangements, one preferred and practical embodiment of which is shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the improved lifting jack. Fig. 2 is a central vertical sectional view, the lifting lever being shown in an inoperative position. Fig. 3 is a horizontal sectional view. Fig. 4 is a fragmentary vertical sectional view showing the manner of bracing the supporting standards.

Referring to the accompanying drawings by numerals, it will be seen that the improved lifting jack comprises a flat base 5 the ends and sides of which are preferably beveled, as indicated at 6, to impart a pleasing appearance thereto. A pair of spaced, parallel vertically arranged standards 7 are mounted on the base 5 and rigidly fastened by the fasteners 8 that extend through said base and enter the lower ends of said standards. The standards are supported by the inclined brace bars 9 the beveled upper ends of which are fastened to the rear of said standards by the fasteners 10 and the lower beveled ends of said bars are fastened to the rear portion of the upper surface of the base 5 by the bolts 11, or other fasteners. The upper ends of the standards 7 are connected by the cap plate 12.

At their central portions, the standards 7 are connected by a transversely arranged shaft 13 and a lifting lever 14 is pivotally supported by said shaft between said standards. The upper surface of the forward end portion of lever 14 is provided with a work holding plate 15 having forward and rear upstanding flanges 16 which prevent the work slipping from said plate. At an intermediate point, and to the rear of standards 7, the upper surface of the lever 14 is provided with inclined, transversely extending notches 17.

A transversely arranged pivot bolt 18 connects standards 7 above shaft 13, said bolt being arranged so that its head and the outer end of its shank project beyond the said standards. A loop-shaped locking dog 19 has the outer ends of its divergent arms provided with hooks 20 that are rotatably mounted on the projecting ends of pivot bolts 18. One of the hooks is prevented from moving longitudinally of the bolt 18 by the head of said bolt and the adjacent standard 7 and the other hook is prevented from moving longitudinally of the bolt by the nut 21 and the other standard 7. Abutments 22 project laterally from the standards 7 to prevent the hooks 20 being accidentally displaced from the bolt 18 by transverse movement, said abutments being preferably staples that can be readily removed from the standards when it is necessary or desirable to release the hooks from the bolt. A spiral spring 23 has an eye 24 at its upper end that engages the dog 19. The lower end of said spring is provided with a hook 26 that engages a screw eye 27 carried by the rear end of the base 5. As will be obvious, the spring 23 normally holds the end bar of dog 19 in position to engage one of the notches 17 of lever 14.

In use, the axle, or other part of the vehicle to be lifted, is seated on the plate 15 between the end flanges thereof, and the rear end of said lever depressed so that the dog 19 will engage one of the notches 17 and thereby lock said lever in position to retain the vehicle elevated. To lower the vehicle, the dog 19 is released from the notch 17 against the tension of spring 23, whereby the weight of the vehicle will lower the forward end of the lever 14.

As will be clear, the notches 17 being inclined, their straight rear walls form abutments for the end bar of the dog 19, which prevent the rear end of the lever 14 being elevated when the dog is in any of said notches, but said rear end can be readily depressed for the reason that the said dog

will slide along the bottoms of the notches during such movement.

What I claim as my invention is:—

A lifting jack comprising a base, a pair of standards carried thereby, a shaft carried by said standards, a lifting lever pivotally supported between said standards by said shaft, a work holding plate on the upper surface of the forward end of said lever, said lever having the upper surface of its rear portion provided with spaced transverse inclined notches, a pivot bolt carried by said standards above said lever, a loop-shaped dog having end hooks pivotally connected to the ends of said bolt, removable abutments carried by said standards for preventing accidental release of said hooks from said bolt, and a spring connection between said dog and said base for normally holding the dog in engagement with one of said notches.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

AMOS BOBERG.

Witnesses:
O. L. BOBERG,
ELI BOBERG.