

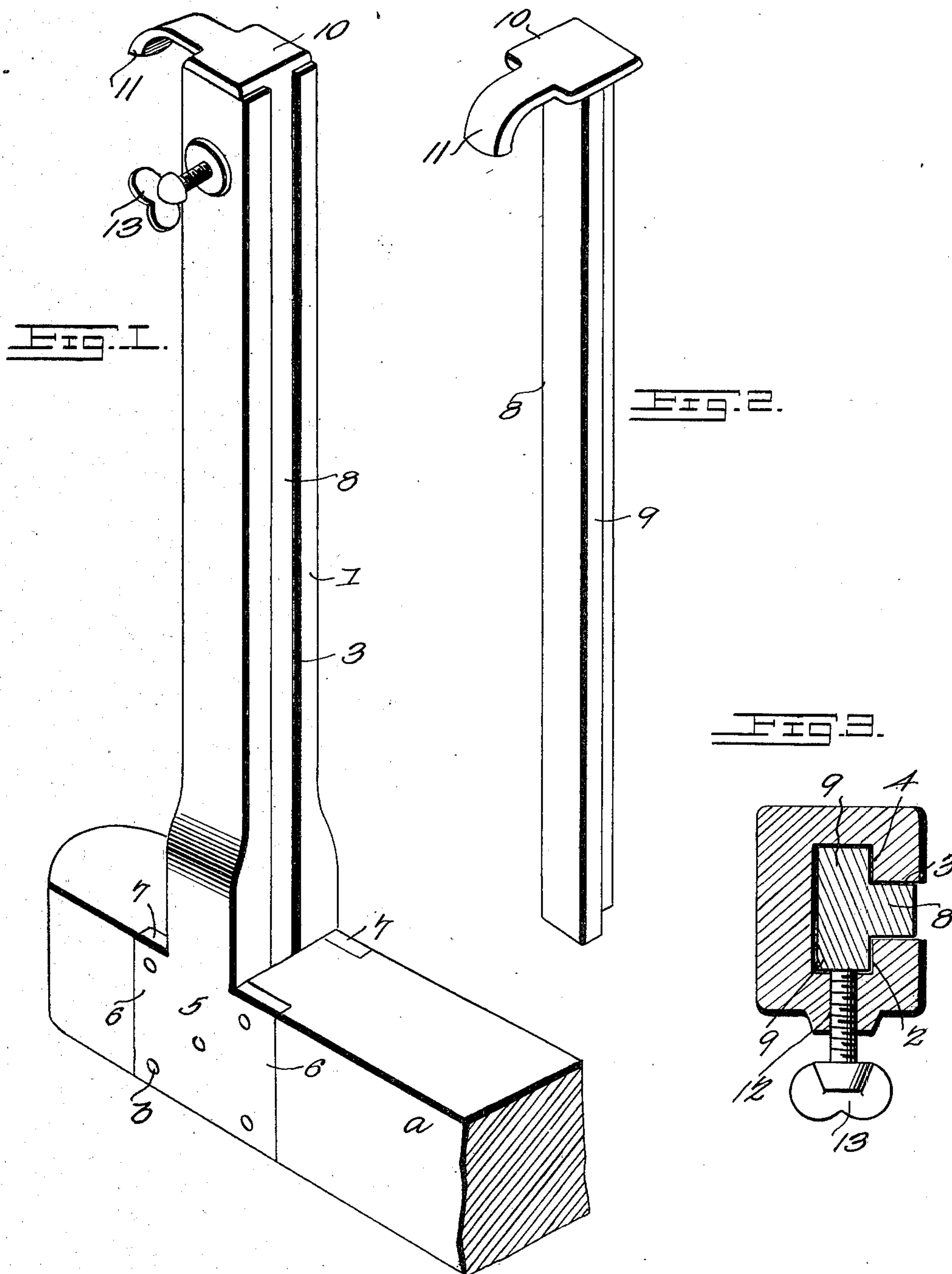
No. 735,350.

PATENTED AUG. 4, 1903.

W. J. DONNELL.  
WAGON STANDARD.

APPLIOATION FILED FEB. 10, 1902.

NO MODEL.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WILLIAM J. DONNELL, OF SOUTH AMBOY, NEW-YORK.

## WAGON-STANDARD.

SPECIFICATION forming part of Letters Patent No. 735,350, dated August 4, 1903.

Application filed February 10, 1902. Serial No. 93,386. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM J. DONNELL, a citizen of the United States, residing at South Amboy, in the county of Middlesex and State of New York, have invented a new and useful Wagon-Standard, of which the following is a specification.

My invention is an improved wagon-standard having a vertically-adjustable slide by means of which the height of the standard may be varied as may be required by the height of the load or box.

One object of my invention is to effect improvements in the construction of the standard and slide by means of which the inner side of the latter is within the plane of the inner side of the standard.

A further object of my invention is to provide the slide with a cap, which when the slide is lowered in the standard covers the top of the latter and protects the same and prevents water or dirt from working between the slide and the slot in the standard in which the slide is contained.

A further object of my invention is to provide the cap of the slide with a thumb-piece or handle to facilitate the adjustment of the slide.

A further object of my invention is to provide a device to secure the slide at any adjustment in the standard and to dispose said securing device in one side of the standard where it will be out of the way and not likely to be broken by coming in contact with the load or objects in the wagon.

With these and other objects in view my invention consists in the peculiar construction and combination of devices hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a wagon-standard constructed in accordance with my invention, showing the same attached to a bolster. Fig. 2 is a detail perspective view of the slide, showing the same detached from the standard. Fig. 3 is a cross-sectional view taken on a plane disclosing the set-screw.

In the embodiment of my invention I provide the standard 1, which is preferably made of steel or iron, with a slot 2, which extends from the lower end of the standard to the upper end thereof and which slot is open on the

inner side of the standard, as at 3. The said slot is T-shaped or laterally shouldered in cross-section, as at 4, and the said lateral shoulders thereof are here shown as angular in form, but the same may be of any other suitable form, and I do not, therefore, limit myself in this particular. The standard is provided at its lower end, at its front and rear sides, with depending flanges 5, which project beyond the inner and outer sides of the standards, as at 6, being sufficiently widened to form the shoulders 7, and the said flanges bear against the front and rear sides of the bolster *a* and are secured thereto by screws, bolts, or other suitable devices, (indicated at *b*.) The lower end of the standard proper bears squarely on the top of the bolster and serves to strengthen the connection between the standard and the bolster.

In connection with the standard 1 I provide a vertically-adjustable slide 8, which is also preferably made of iron or steel, and corresponds in height with that of the standard and in cross-section is T-shaped, so as to correspond with the shape of the slot 2, in which slot the said slide is fitted and is adapted to be moved. The shoulders 9 of the slide engage the shoulders 4 of the slot or groove and retain the slide against appreciable lateral movement in said slot or groove, and the inner side of the said slide is within the plane of the inner side of the standard, and is hence kept out of contact with the side of the wagon box or bed or of the load, so that the slide may be readily adjusted and is prevented from becoming jammed in the standard, and yet the inner side of the slide, when the latter is raised, will bear against the top box and sustain the latter against the stress to which it is subjected when the wagon is loaded. It will be readily understood that if the slot or groove in which the slide is vertically movable is made in the nature of a socket a portion of the metal will be interposed between the slide and the side of the wagon-box, and a space thus created which would cause the side-boards or extension-boards of the wagon-box to tilt outwardly when the slides should be raised for the purpose of admitting such side or extension boards. By the construction herein described the slide 8 may be almost in contact with the outside of the wagon-box,



and yet sufficient play left to insure absolute freedom of movement.

It will be understood that my improved standard is equally well adapted for use when  
5 the bed or box is taken off the running-gear, and the load, as lumber, poles, or the like, is placed directly on the bolsters between the standards.

At the upper end of the slide 8 is a cap 10.  
10 The sides of the same project laterally beyond the sides of the slide, and the size and shape of the cap correspond to the upper end of the standard, so that when the slide is lowered to its full extent in the standard the cap en-  
15 tirely covers the upper end of the latter and excludes dust and rain from the groove or slot in which the slide is placed. The cap has its outer side provided with a thumb-piece or handle 11 to facilitate the adjustment of the  
20 slide. The outer end of the thumb-piece or handle is downturned to be out of the way when the cap is used as a fulcrum-piece in loading and unloading the wagon. The cap also prevents grit, pieces of bark, chips, and  
25 the like from getting between the slide and the standard when the wagon is being used for hauling poles, logs, or lumber.

In one of the sides of the standard, perpendicular to the wagon-box, is a threaded  
30 opening 12, which is near the top of the standard. A set-screw 13, which is here shown as provided with a winged head to enable it to be readily turned by the thumb and fore-  
finger, operates in the threaded opening 12  
35 and may be engaged with one side of the slide to lock the latter at any desired adjustment. By thus disposing the set-screw, which is the securing device of the adjustable slide, in one side of the standard which is perpendicular  
40 to the side of the box, the said set-screw is out of the way, forms no obstruction to the loading or unloading of the wagon, and is not likely to be broken by contact with the load.

An opening may be made in the bolster and the slide lengthened, so that its lower portion  
45 will pass through said opening when the slide is lowered to bring the cap on the upper end of the standard.

Changes may be made in the form and dimensions of the various parts and other modi-  
50 fications may be made within the scope of my invention.

Having thus described my invention, I claim—

1. A wagon-standard having a vertical  
55 laterally-shouldered groove or slot, T-shaped in cross-section, in combination with a vertically-adjustable laterally-shouldered slide, T-shaped in cross-section, movable vertically  
60 in said groove and having its inner side with- in the plane of the inner side of the standard.

2. A wagon-standard having a vertically-  
extending groove, T-shaped in cross-section and provided at its lower end with shouldered  
65 side plates engaging recesses in the sides of a wagon-bolster, in combination with a vertically-movable slide, T-shaped in cross-section, provided at its upper end with a cap  
70 having an outwardly and downwardly extending thumb-piece adapted to serve as a fulcrum-piece in loading and unloading.

3. A wagon-standard having a vertical  
groove, T-shaped in cross section, in combination with a slide, T-shaped in cross-section, vertically adjustable in said groove, and  
75 a set-screw extending through a threaded perforation in the standard near the upper end of the latter and bearing against one of the T-flanges of the slide.

In testimony that I claim the foregoing as  
80 my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM J. DONNELL.

Witnesses:

DAVID SERVISS,  
DE WITT ROSE.