J. T. WARREN.

BOLSTER FOR LOG WAGONS.

APPLICATION FILED JULY 11, 1908.

943,495.

Patented Dec. 14, 1909.

Fig. 1.

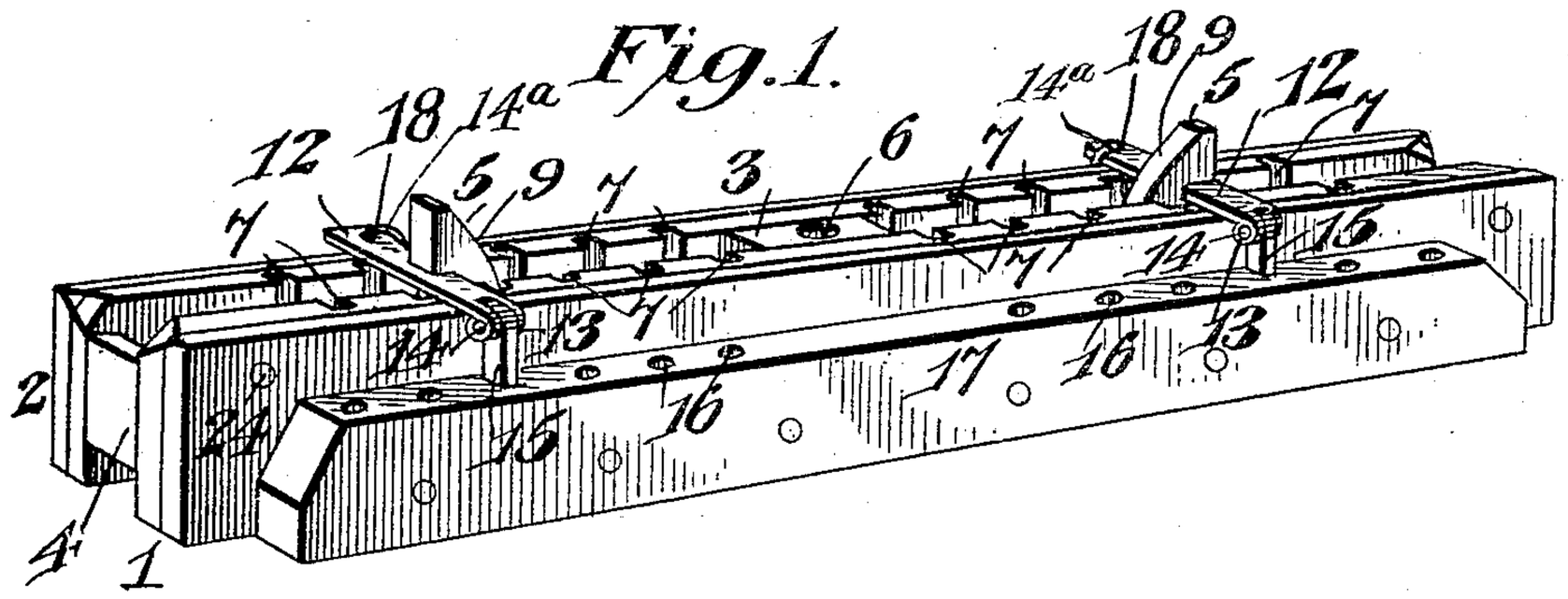


Fig. 2.

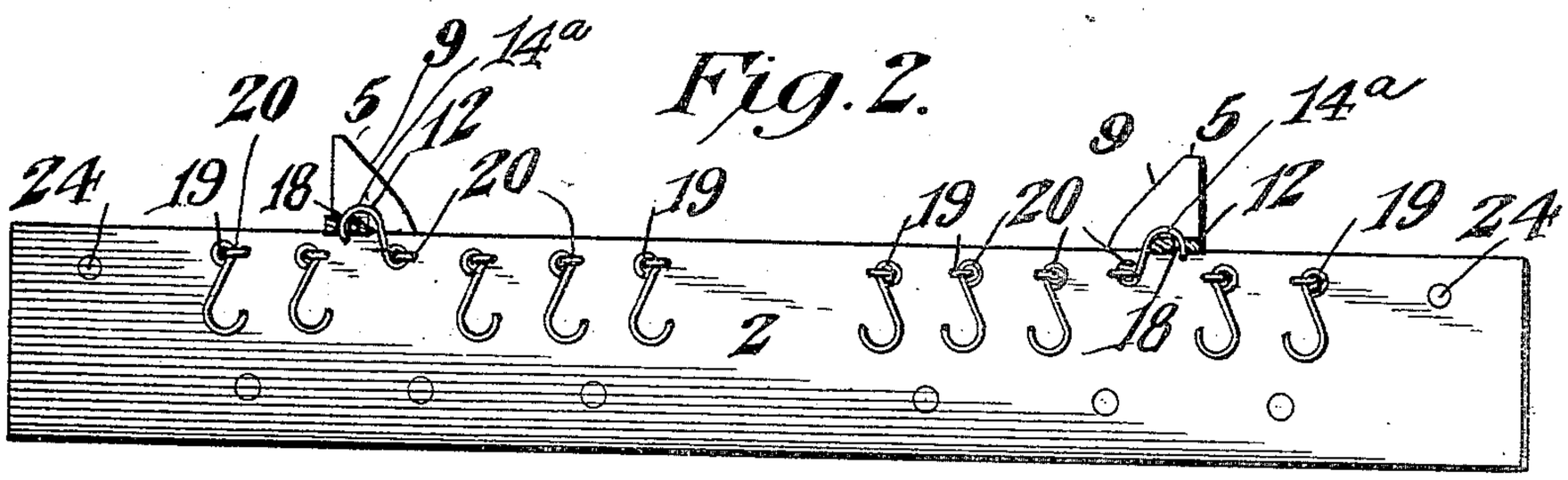


Fig. 3.

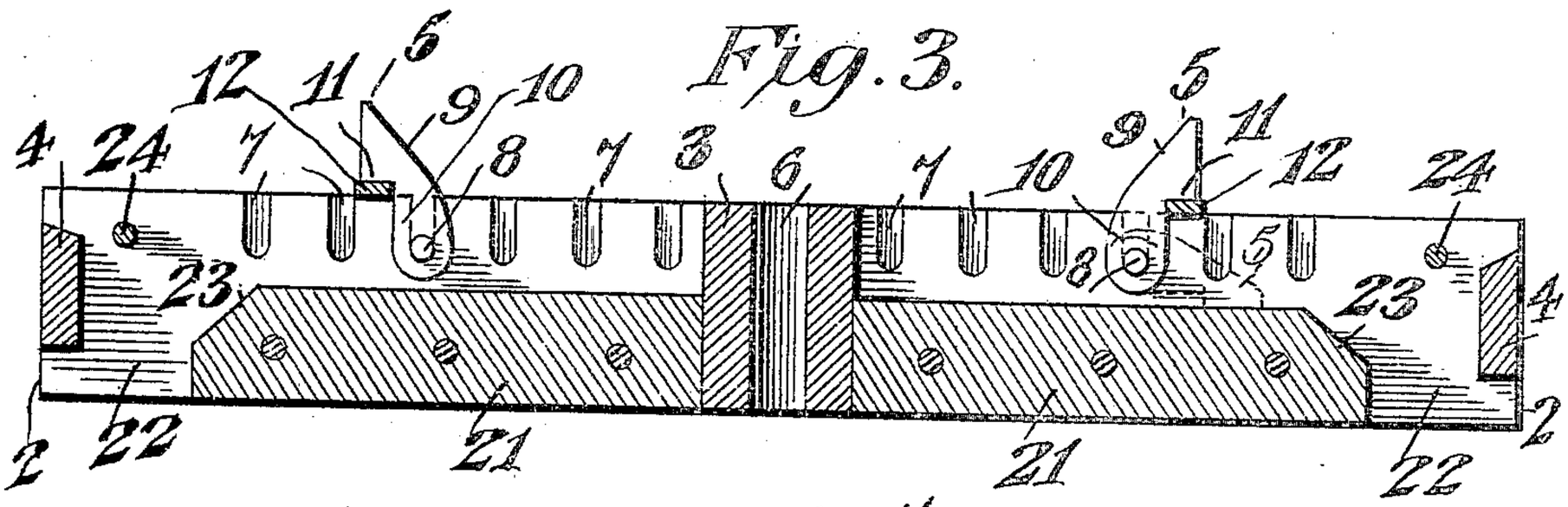
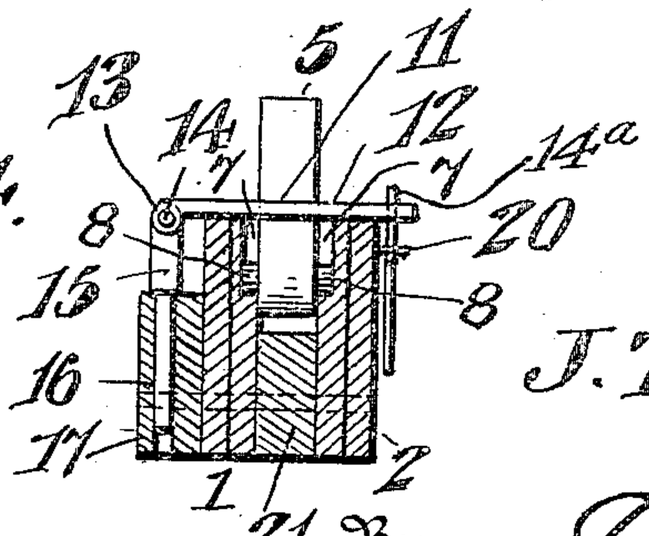


Fig. 4.



Witnesses

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BOLSTER FOR LOG-WAGONS.

943,495. Specification of Letters Patent. Patented Dec. 14, 1909.

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To all whom it may concern:

Be it known that I, JOHN T. WARREN, a citizen of the United States, residing at Hemphill, in the county of Sabine and State of Texas, have invented a new and useful Bolster for Log-Wagons, of which the following is a specification.

The invention relates to improvements in bolsters for log wagons.

The object of the present invention is to improve the construction of bolsters for log wagons, and to provide a simple and comparatively inexpensive bolster of great strength and durability, equipped with adjustable chocking devices movable toward and from the center of the bolster to arrange them to accommodate loads of different sizes, and adapted to be readily dropped below the upper face of the bolster to prevent them from being injured by the logs while loading a wagon, and also to enable a wagon to be readily unloaded.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a bolster, constructed in accordance with this invention. Fig. 2 is an elevation of the same. Fig. 3 is a central longitudinal sectional view. Fig. 4 is a transverse sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

The bolster is provided with metallic sides 1 and 2, spaced apart by a central bearing block 3 and end blocks 4 to provide opposite longitudinal spaces or ways for the reception of adjustable chocking devices 5. The sides 1 and 2 may consist of one or more pieces and be constructed of any suitable metal, and they are suitably secured to the spacing blocks 3 and 4. The central bearing block 3 has a central vertical opening 6 for the reception of a coupling or king pin of the ordinary construction.

The spaced sides of the bolster are provided at their inner faces with vertical bearing recesses 7, arranged at intervals and extending downwardly from the upper edges of the sides 1 and 2. These bearing recesses, which have rounded lower end walls, are adapted to removably receive pivots or journals 8 of the chocking devices 5, whereby the latter are adjustably and pivotally connected with the sides of the bolster. The chocking devices are adapted to be lifted out of the bearing recesses, and their pivots or journals may be placed in any of the recesses to arrange the chocking devices the desired distance from the center of the bolster. The chocking devices are provided with inclined edges 9 at their upper portions, and they have depending shanks or portions 10, extending into the space between the sides of the bolster and carrying the said pivots or journals 8. The inner edges 9, which fit against and receive the logs, extend upwardly and outwardly, and the chocking devices are provided at their outer sides with horizontal shoulders 11, located at a point intermediate of the ends of the chocking devices and above the upper edges of the sides of the bolster, when the chocking device is arranged in operative or engaging position. The outer edges of the upper portions of the chocking devices are preferably vertical, and the said devices are maintained in projecting position with relation to the bolster by transversely disposed supporting plates or members 12, and they are adapted to drop into the longitudinal spaces of the bolster, as illustrated in dotted lines in Fig. 3 of the drawing to arrange them out of the way of the logs when loading or unloading a log wagon.

The supporting plates or members 12, which rest upon the upper edges of the sides of the bolster are adjustable inwardly and outwardly to arrange them in proper position with relation to the chocking devices, and they are provided at one end with spaced eyes 13 and are hinged by pintles 14 to vertical pins 15, removably arranged in vertical sockets or openings 16 of a horizontal strip 17, extending longitudinally of and secured to the exterior of the bolster at one of the side faces thereof. The vertical sockets correspond in number with the opposite bearing recesses 7 of the sides of the bolster, and the pins 15, which have flat upper portions, are rounded to fit the sockets and form pivots for enabling the supporting plates to

be readily swung around from their supporting position to permit the pivoted chocking devices to swing downward. The supporting plates or members extend beneath the upper portions of the chocking devices and receive the horizontal shoulders 11, as clearly illustrated in Figs. 1 and 3 of the drawing, and they are locked in such position by means of hooks 14ª, arranged in series and mounted on the exterior of the bolster at the side face opposite that at which the strip 17 is arranged. The bills of the hooks engage perforations 18 of the proximate ends of the supporting plates or members, and the shanks of the hooks are provided with eyes 19, which are linked into suitable eyes 20 of the bolster. The hook-engaged ends of the supporting plates project beyond the bolster, and when it is desired to unload a wagon, the hook, which extends through the supporting plate or member and projecting slightly below the lower face of the same, is knocked upward out of engagement with the supporting plate or member, and the latter is swung horizontally away from the chocking member, which swings downward and releases the load. The chocking devices may be almost instantly released to enable a wagon to be quickly unloaded.

When loading a wagon, the skid is placed against the end of the bolster and the farther chocking device is arranged in operative position, the proximate chocking device being arranged within the bolster out of the path of the logs. After the load has been placed on the wagon, the chocking devices at the side where the wagon has been loaded, are swung upward into engagement with the load and are supported in such position by the transverse plates or members.

The bolster is provided at the bottom of the longitudinal space or ways with longitudinal supporting strips 21, extending outwardly from the central bearing block 3 and terminating short of the end spacing block 4 to form cleaning openings 22. The strips, which are preferably constructed of wood to render the bolster as light as possible, are arranged to support the chocking devices, so that they may be readily grasped by the operator. The openings 22 enable any pieces of bark, chips, and other accumulation to be readily raked or scraped out of the longitudinal spaces or ways to prevent such accumulation from interfering with the chocking devices. The outer ends 23 of the supporting strips are beveled to facilitate the removal of the bark and chips, and the bolster is provided above the openings 22 with transverse supporting pins 24, arranged to receive the chocking devices when the latter are at the limit of their outward adjustment. The pins prevent the chocking devices from dropping downwardly into the openings 22 beyond the reach of the operator. The strip 17, which is provided with the sockets, is preferably constructed of wood in order to avoid materially increasing the weight of the bolster. The pins extend a sufficient distance into the sockets, and the bearing recesses 7 of the sides of the bolster are of sufficient depth to prevent any liability of the chocking devices and their supporting means from becoming lost unless the wagon should upset.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The combination of a bolster having spaced side portions forming a longitudinal opening and provided at intervals with bearings, a chocking device provided with a pivot adapted to be arranged in the said bearings, whereby the chocking device may be adjusted along the bolster, and a support arranged in the opening of the bolster and located below the said bearings for limiting the downward movement of the chocking device to hold the same within reach in any adjustment of the said device.

2. The combination of a bolster having spaced side portions, a pivoted chocking device mounted between the spaced side portions of the bolster, a transverse supporting plate or member bridging the space between and supported directly by the side portions of the bolster and receiving and supporting the chocking device, a pin mounted on the bolster and connected with the plate or member and forming a pivot for the same, and means for securing the plate or member in its supporting position.

3. The combination of a bolster having spaced side portions, a pivoted chocking device mounted between the side portions, a plate or member extending across the space between the side portions of the bolster and receiving and supporting the chocking device, a vertical pin connected with and forming a pivot for one end of the supporting plate or member to enable the same to swing horizontally away from its supporting position, and a fastening device detachably engaging the other end of the plate or member for holding the same in its supporting position.

4. The combination of a bolster having spaced sides, each side being provided with a series of duplicate bearings consisting of recesses, which extend from the top part way down the side, a chocking device fitting in the space between the sides and having pivots adapted to engage in any two of the said recesses, said chocking device being removable and insertible from the top, and a locking device for the said chocking device.

5. The combination of a bolster open at the top and provided at intervals with bearings, a chocking device fitting in the open-

ing and removable from the top and adapted to be arranged in any of the said bearings, and a locking device adjustable on the bolster to correspond with the adjustment of the chocking device.

6. The combination of a bolster having spaced sides forming a longitudinal opening and provided at intervals with bearings, an adjustable chocking device arranged in the opening and provided with a pivot detachably fitting in the said bearings, and supporting means spanning the opening of the bolster and receiving the chocking device and adjustable along the bolster with the said device.

7. The combination of a bolster having spaced sides provided with opposite bearing recesses, chocking devices having opposite pivots to fit in the said recesses, said bolster being also provided with vertical sockets arranged at intervals, a supporting plate or member arranged to receive the chocking device and provided at one end with a pin adapted to fit in the said sockets, and means for securing the other end of the plate or member.

8. The combination of a bolster having spaced sides provided with opposite bearing recesses, a chocking device having opposite pivots to fit in the said recesses, said bolster being also provided with vertical sockets arranged at intervals, a supporting plate or member arranged to receive the chocking device and provided at one end with a pin adapted to fit in the said sockets, and fastening devices arranged at intervals for engaging the other end of the plate or member.

9. The combination of a bolster having spaced sides, a chocking device pivotally mounted between the sides, a transverse plate or member extending across the space between the sides, a pin hinged to one end of the plate or member and mounted on the bolster and arranged to permit the plate or member to swing horizontally, and means for securing the other end of the plate or member to the bolster.

10. The combination of a bolster including spaced sides, chocking devices pivotally mounted between the sides and arranged to swing downward below the top of the bolster, said chocking devices being adjustable toward and from the center of the bolster, supporting strips mounted between the sides at the bottom of the bolster for limiting the downward swing of the chocking devices, and adjustable means bridging the space between the sides of the bolster for supporting the chocking devices.

11. The combination of a bolster including spaced sides, a chocking device pivotally mounted between the said sides and arranged to swing downwardly, a supporting strip arranged between the sides for limiting the downward swing of the chocking device, said bolster being provided with a bottom opening, and a transverse pin extending across the bolster at the opening for supporting the chocking device.

12. The combination of a bolster including spaced sides, a central bearing block, and terminal spacing blocks arranged between the sides, chocking devices pivotally mounted between the spaced sides of the bolster and adjustable toward and from the center of the same, supporting strips mounted between the sides of the bolster and terminating short of the outer ends of the same, and means for supporting a chocking device in projecting position with relation to the bolster.

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

JOHN THOMAS WARREN.

Witnesses:
H. B. Arnold,
L. E. King.