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LOCOMOTIVE CAB SEAT

Filed July 19, 1927

Fig. 1.

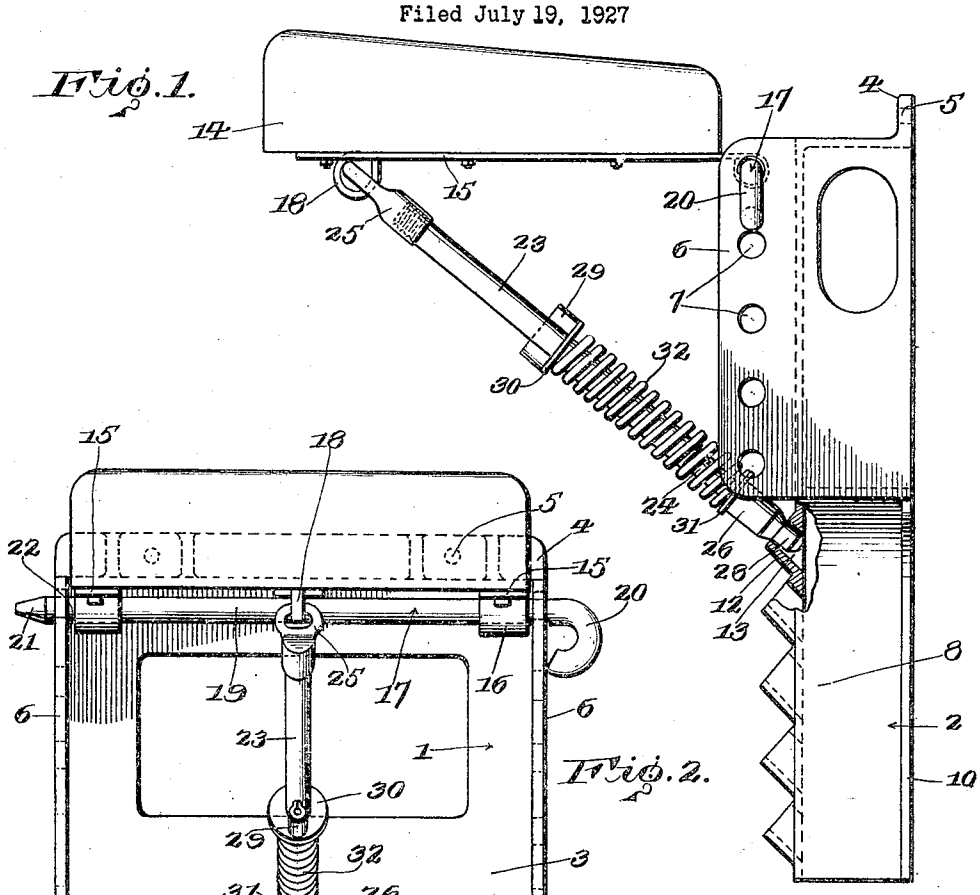
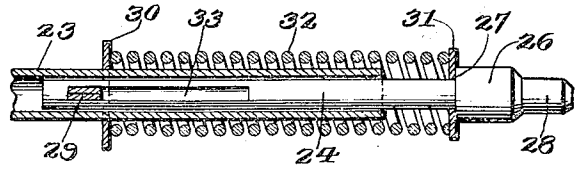


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

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LOCOMOTIVE-CAB SEAT.

Application filed July 19, 1927. Serial No. 206,940.

This invention relates to a seat designed primarily for use in connection with locomotive cabs, but it is to be understood that a seat in accordance with this invention may be employed in any connection for which it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, an adjustable cushioned seat primarily for use by engineers or motormen.

A further object of the invention is to provide, in a manner as hereinafter set forth, a seat including a seat member and a cushioned supporting structure therefor and means whereby the seat member can be adjusted to various angular positions with respect to the supporting structure.

A further object of the invention is to provide a cab seat for locomotives, in a manner as hereinafter set forth and including means whereby the seat may be raised or lowered to suit the convenience of the user, thereby reducing fatigue.

A further object of the invention is to provide, in a manner as hereinafter set forth, a seat which can be moved downwardly, thus providing space for the user to stand should he so desire.

A further object of the invention is to provide, in a manner as hereinafter set forth, a cab seat of substantial construction which may be easily and conveniently adjusted for height.

Further objects of the invention are to provide, in a manner as hereinafter set forth, an adjustable cushioned seat, which is simple in its construction and arrangement, strong, durable, compact, thoroughly efficient in its use, conveniently adjusted, readily installed and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which will fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a side elevation of an adjustable, cushioned seat in accordance with this invention.

Figure 2 is a front elevation thereof.

Figure 3 is a fragmentary view, in section, of a cushioned supporting element.

Referring to the drawings the seat includes a supporting standard consisting of a head portion and a shank portion referred to generally at 1, 2 respectively and with the standard substantially of T-shape contour. The head comprises a hollow rectangular apertured body portion 3 having its rear wall, at its top, extended to provide a vertically disposed flange 4 provided with openings 5 for the passage of holdfast devices to secure the top of the body portion stationary. The flange 4 extends from one end to the other end of the body portion 3. The body portion 3 at each end thereof is formed with an outwardly directed flange 6. The flanges 6 extend lengthwise and the flange 4 horizontally or transversely of the body portion 3. The flanges 6 extend from the top to the bottom of the body portion 3 and each of which is of greater width than the flange 4. Each flange 6 is formed with a vertically extending row of spaced openings 7 for a purpose to be presently referred to.

The stem or shank 2 is formed of a hollow body portion 8 having a flaring upper part 9 which merges into the bottom of the body portion 3. In sectional plan the body portion 8 is of rectangular contour. Projecting from each side of the body portion 8, at the rear thereof is a laterally extending flange 10, which is coextensive with and of the same contour as said body portion 8 and the said flanges 10 merge into the rear of the bottom of the body portion 3 of the head 1. Each flange 10 is formed with an opening 11 for the passage of a holdfast device to fixedly secure the stem or shank and the lower part of the head 1 stationary.

The front of the body portion 8 of the stem or shank 2 has formed integral therewith a series of upwardly inclined, superposed, outwardly extending lugs 12 which overhang each other and each of which is provided with an upwardly extending inclined socket 13 for a purpose to be presently referred to.

A seat member is indicated at 14 and which is adjustably and pivotally connected to the flanges 6 and supported in adjusted position from the stem or shank 2 by a cushioned supporting means therefor. Secured to the lower face of the seat member 14 is a pair of spaced straps 15 which project from the inner or rear end of the seat member 14. The pro-

jecting parts of the straps 15 are bent to provide loops 16 for the passage of a combined supporting and pivot bar 17.

Secured to the lower face of the seat member 14, between the straps 15, is an eye 18 and which is provided for coupling a cushioned supporting means to the seat member 14 and said means will be presently referred to.

The bar 17 comprises a cylindrical intermediate part 19, a curved and shouldered end part 20, and a pointed end part 21. The intermediate part 19 in proximity to the end part 21 is formed with a peripheral groove 22 which provides a pair of shoulders. The bar 17 is of cylindrical cross section and is of a diameter somewhat less than the diameter of either of the openings 7. The bar 17 is extended through one of the openings 7 of each row, and also through the loops 16, and when in position overlaps both of the flanges 6, see Figure 2. The bar 17 not only provides a pivotal connection between the seat member 14 and the head 1, but further acts as a support for the inner end of the seat member 14.

The cushioned supporting means for the seat member 14 comprises a tubular section 23, a cylindrical section 24 telescoping within the section 23, an apertured head piece 25 which is connected to the eye 18 and carried on the upper end of the tubular section 23, a foot piece 26 connected to the lower end of the cylindrical section 24, of greater diameter than the diameter of the latter to form a shoulder 27 and with the foot piece formed with an extension 28 of less diameter for engaging in a socket 13, a stop 29 secured to and extending transversely of the tubular section 23, a collar 30 slidably mounted on the tubular section 23 and adapted to abut the stop member 29, a collar 31 positioned against the shoulder 27 and a coiled spring 32 surrounding the tubular section 23 and interposed between the collars 30, 31. The stop member 29 projects from the tubular section 23 and its projecting ends are in the path of the collar 30. The stop member 29 further extends through a longitudinally extending slot 33 formed in the cylindrical section 24.

The rows of openings 7 permit of positioning the seat member 14 at different heights with respect to the supporting standard. The sockets 13, in connection with the cushioned supporting means permit of positioning the seat member 14 at different angles with respect to the supporting standard. The cushioned supporting means detachably engages in the sockets 13 so that it can be removed therefrom and the seat member dropped if desired. As the supporting means is of the telescopic type and includes a controlling spring for the sections 23, 24 it provides for the cushioning of the seat member 14 when the latter is supported in adjusted position by said means, in connection with the stem or shank 2 and bar 17. The shouldered parts of bar 17 will provide for the retaining of the latter in selected position with respect to the flanges 6.

It is thought the many advantages of an adjustable, cushioned seat in accordance with this invention, can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which will fall within the scope of the invention as claimed.

What I claim is:

1. A seat for the purpose set forth comprising a stationary standard, a seat member, a combined seat member supporting and pivot bar for detachably connecting said member to the standard, and an inclined cushioned supporting means for the seat member, said means detachably engaging into said standard and connected with the seat member, said standard provided with means at its sides and centrally thereof for selectively positioning said bar and cushioned supporting means respectively relative thereto.

2. A seat for the purpose set forth comprising a stationary standard, a seat member, a combined seat member supporting and pivot bar for detachably connecting said member to the standard, and an inclined cushioned supporting means for the seat member, said means detachably engaging into said standard and connected with the seat member, said standard provided with opposed spaced rows of spaced openings for selectively positioning said bar and further provided with a row of superposed sockets disposed centrally thereof and below said rows for selectively positioning said supporting means.

3. A seat for the purpose set forth comprising a stationary standard including a head and a shank, a seat member, a combined seat member supporting and pivot bar for detachably connecting said member to said head, and an inclined cushioned supporting means for the seat member, said means detachably engaging into said shank and connected with the seat member, said head provided at each side thereof with a vertically disposed row of spaced openings, said rows of spaced openings opposing each other and providing for selectively positioning said bar relative thereto, and said shank provided with a row of superposed sockets positioned between said rows of openings and providing means for selectively positioning said cushioned supporting means with respect to the standard.

4. A seat for the purpose set forth comprising a standard including a shank portion and a head portion, the latter being of greater width than the former, said head portion formed at its sides with vertical flanges, a seat member, a combined seat member supporting and pivot bar seated in said flanges for detachably and pivotally connecting said member to said flanges, a cushioned support-

ing means for the seat member, and said means and shank having coacting elements for detachably connecting said means to said standard to support the seat member.

5. A seat for the purpose set forth comprising a stationary standard including a head portion and a shank portion and with the latter of less width than the former, said head portion formed with a pair of spaced flanges at the sides thereof, each of said flanges provided with a series of spaced openings, a seat member, a combined seat member supporting and pivot bar selectively extending through the openings of said flanges for adjustably, detachably and pivotally connecting said member to said head portion, said bar having inherent means coacting with the flanges for detachably securing the bar in set position, and a cushioned supporting means for the seat member, said stem portion and means having coacting elements for selectively positioning said means at varying inclinations with respect to the standard, said coacting elements detachably securing said means in position to support the seat member.

6. A seat for the purpose set forth comprising a stationary standard provided at its top with opposed apertured flanges, a seat member, a combined seat member supporting and pivot bar selectively extending through the apertures of said flanges for adjustably, detachably and pivotally connecting said member to the standard, and a telescopic cushioned supporting means for said seat member including a spring controlled shiftable section, said means connected to said seat member, said shiftable section having its lower end provided with means to selectively engage in the lower portion of the standard at different points to support said means at varying inclinations with respect to the standard.

7. A seat for the purpose set forth comprising a stationary standard having an enlarged upper portion and a reduced lower portion disposed centrally with respect to the upper portion, vertically extending, opposed, spaced flanges projecting from the sides of said upper portion and each having a row of superposed spaced openings, the openings of one row aligning with the openings of the other row, means extended from said lower portion to provide a vertical row of spaced upwardly inclined sockets, a pivot bar for selective extension through opposed openings, a seat member pivotally attached to the bar, and a cushioned supporting means pivoted to said member and selectively engaging in said sockets for supporting said member with respect to the standard.

8. A seat for the purpose set forth comprising a stationary standard having an enlarged upper portion and a reduced lower portion disposed centrally with respect to the upper portion, vertically extending, opposed, spaced flanges projecting rearwardly from the sides of said upper portion and each having a row of superposed spaced openings, the openings of one row aligning with the openings of the other row, means extended rearwardly from said lower portion to provide a vertical row of spaced, upwardly inclined sockets, a pivot bar for selective extension through opposed openings, a seat member having projecting from its forward end means for pivotally connecting it to said bar, and a telescopic cushioned supporting element pivotally attached at its upper end to said member and having a reduced lower end selectively engaging with one of said sockets for supporting the seat member relative to said standard.

In testimony whereof, I affix my signature hereto.

WILLIAMS A. NEWMAN.