May 5, 1925. 1,536,856

B. F. HOWSE

RAIL

Filed Sept. 23, 1924

Fig. 1.

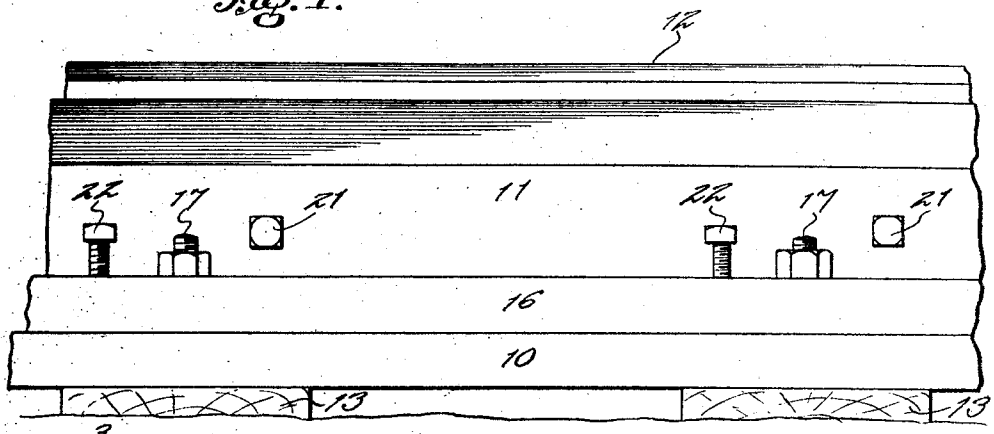


Fig. 2.

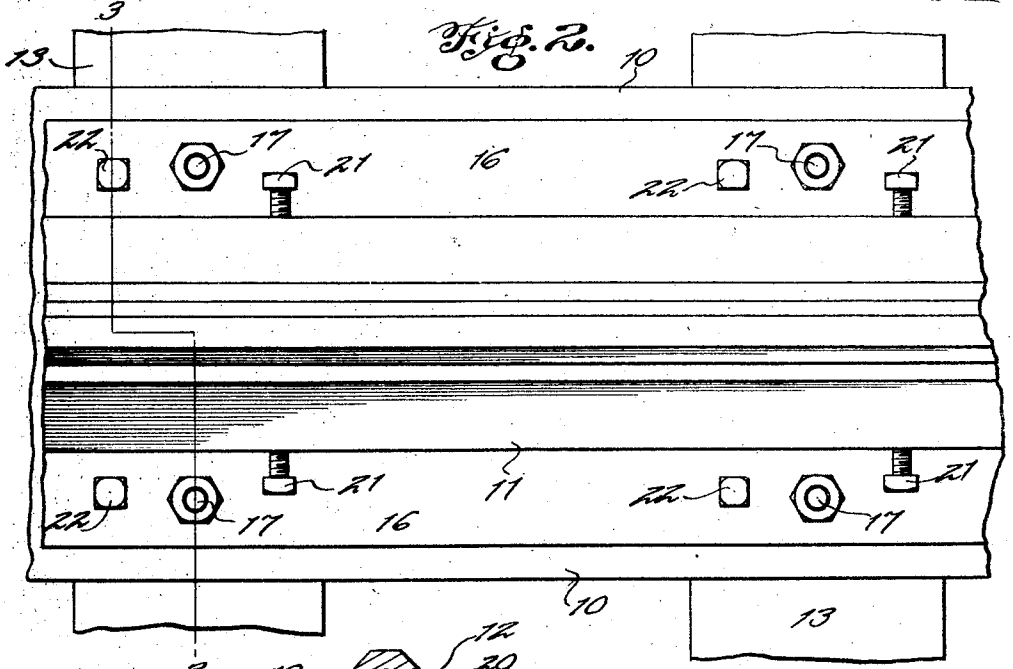
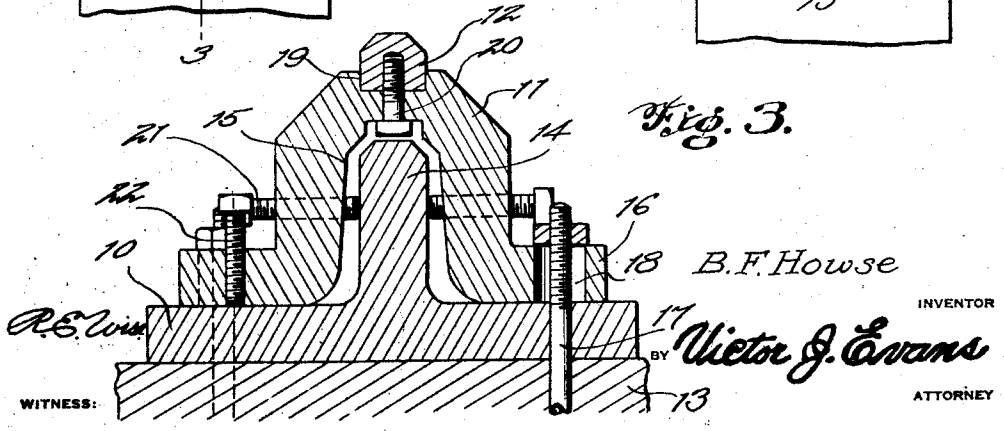


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJAMIN F. HOWSE, OF CARY, MISSISSIPPI.

RAIL.

Application filed September 23, 1924. Serial No. 739,413.

To all whom it may concern:

Be it known that I, BENJAMIN F. HOWSE, a citizen of the United States, residing at Cary, in the county of Sharkey and State of Mississippi, have invented new and useful Improvements in Rails, of which the following is a specification.

This invention relates to improvements in rails especially adapted for use in supporting traveling machinery, for example, saw carriages.

An object of the present invention is to provide a carriage rail which is capable of ready adjustment both vertically and horizontally, for the purpose of maintaining the rail in proper alignment without the use of shims or the necessity of adjusting the rail supporting timbers.

Another object of the invention is to provide a rail with a removable ball capable of being readily replaced so as to maintain a proper carriage support without renewing the entire rail, the ball securing means and the rail adjusting means being of a character whereby no obstructions or projections may come in contact with the flanges of the carriage wheels.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a side elevation showing a fragmentary portion of a rail, constructed in accordance with the invention.

Figure 2 is a top plan view of the same.

Figure 3 is a section taken substantially on the line 3—3 of Figure 2.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the rail which is of sectional formation comprises a base section 10 and a ball carrying section 11, the latter having removably mounted thereon a ball 12.

The base section 10 is mounted upon suitable timbers 13 and is provided with a centrally located vertically disposed longitudinally extending rib 14.

The ball carrying section 11 is provided with a channel 15 which receives the rib 14 and is further provided with oppositely extending laterally disposed flanges 16 which rest upon the base 10. The width of the channel 15 is greater than the width of the rib 14 so that the section 11 may be moved laterally with respect to the section 10.

Bolts 17 which extend through the timbers 13, the base 10 and the flanges 16 serve to secure the rail to the timbers and to hold the section 11 against independent vertical movement. Openings 18 of relatively large size are provided in the flanges 16 for the passage of the bolts 17 so as to permit of lateral movement of the section 11.

The ball section 12 is seated within a channel 19 provided in the section 11 and this ball section is removably held in place by means of bolts 20.

In order to adjust the ball section horizontally, the opposite side walls of the channel 15 of the section 11 are provided with threaded openings for the passage of adjusting bolts 21, the inner ends of which bear against the opposite side faces of the rib 14. By reference to Figure 3 of the drawings it will be seen that adjustment of the section 11 may be obtained through the medium of these bolts. Bolts 22 extend downwardly through and threadedly engage the walls of openings provided in the flanges 16. The inner ends of these bolts bear upon the upper face of the base section 10, so that by manipulating these bolts the section 11 may be vertically adjusted. After vertical adjustment is obtained the nuts upon the bolts 17 are tightened so as to hold the section 11 in adjusted position.

It will be apparent from the foregoing description and accompanying drawings that the invention provides a simple and efficient rail which may be readily adjusted for use, the joints at the ends of the sections 10, 11 and 12 being staggered so as to provide proper stability. If desired the ball for the usual high ball rails can be substituted for the ball section 12 illustrated.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. An adjustable rail comprising a base section, a ball carrying section mounted thereon, a ball section removably secured to the ball carrying section and means whereby

said ball carrying section may be adjusted vertically and horizontally relative to the base section.

2. An adjustable rail comprising a base section, a longitudinally disposed rib included in said section, a channeled section mounted upon the base section and receiving the rib, a ball section carried by the channeled section, means whereby the channeled section may be adjusted vertically with respect to the base section and means whereby said channeled section may be horizontally adjusted.

3. An adjustable rail comprising a base section, a longitudinally disposed rib included in the base section and extending vertically and centrally of the latter, a channeled section mounted upon the base section and receiving the rib, laterally extending flanges included in the channeled section, means extending through the flanges and engaging the base section whereby the channeled section may be vertically adjusted, means whereby the channeled section may be horizontally adjusted and a ball section carried by the channeled section.

4. An adjustable rail comprising a base section, a longitudinally disposed rib included in the base section and extending vertically and centrally of the latter, a channeled section mounted upon the base section and receiving the rib, laterally extending flanges included in the channeled section, means extending through the flanges and engaging the base section whereby the channeled section may be vertically adjusted, oppositely disposed means extending through the channeled section and engaging the rib of the base section whereby said channeled section may be horizontally adjusted and a ball section carried by the channeled section.

In testimony whereof I affix my signature.

BENJAMIN F. HOWSE.