

J. A. McELROY & W. B. FREEMAN.
 COMBINED RAIL JOINT AND NUT LOCK.
 APPLICATION FILED DEC. 8, 1911.

1,040,720.

Patented Oct. 8, 1912.

Fig. 1.

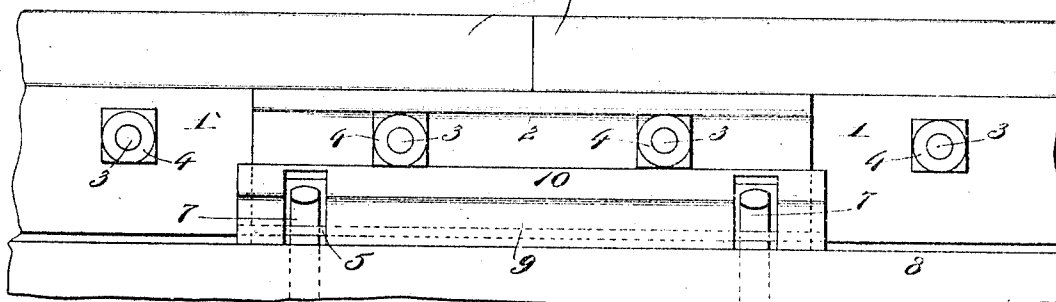


Fig. 2.

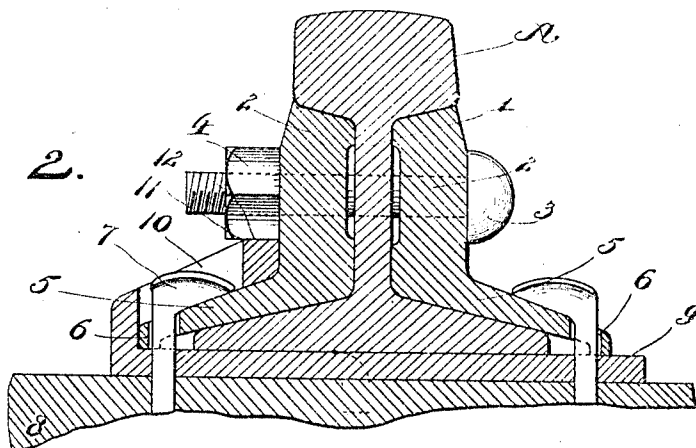
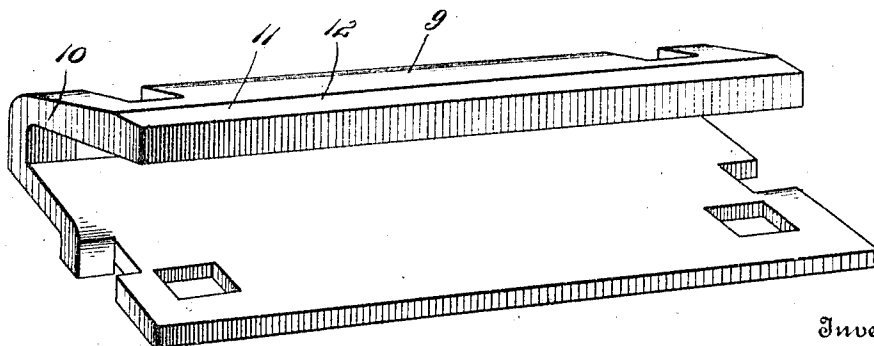


Fig. 3.



Witnesses

C. E. Hoyer.
John J. McCarthy

Inventors

Jackson A. McElroy
William B. Freeman,

By *Victor J. Evans*

Attorney

UNITED STATES PATENT OFFICE.

JACKSON A. McELROY AND WILLIAM B. FREEMAN, OF HATTIESBURG, MISSISSIPPI.

COMBINED RAIL-JOINT AND NUT-LOCK.

1,040,720.

Specification of Letters Patent.

Patented Oct. 8, 1912.

Application filed December 8, 1911. Serial No. 664,547.

To all whom it may concern:

Be it known that we, JACKSON A. McELROY and WILLIAM B. FREEMAN, citizens of the United States of America, residing at Hattiesburg, in the county of Forest and State of Mississippi, have invented new and useful Improvements in Combined Rail-Joints and Nut-Locks, of which the following is a specification.

The present invention comprehends improvements in rail joints and has for one of its objects to provide a combined rail joint and nut lock.

The prime object of the invention is the provision of a rail chair which shall be adapted to engage the nuts at the joint of the rails to prevent the displacement of the said nuts.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the appended claim.

In the accompanying drawing in which we have illustrated the preferred embodiment of the invention; Figure 1 is a side elevation of a rail joint constructed in accordance with the present invention. Fig. 2 is a transverse section of the same, and Fig. 3 is a perspective view of a rail chair constructed in accordance with the present invention.

Referring more particularly to the accompanying drawing in which similar reference characters designate like parts throughout the several views, A designates the abutting ends of a pair of rails having their web portions 1 embraced upon opposite sides by the fish plates 2, 2 and provided with openings alining with the openings in the fish plates and designed to receive bolts 3 having their free ends threaded to receive the nuts 4. At their lower edges the fish plates 2 are provided with flanges or base members 5 designed to overlie the base of the rail and formed immediately adjacent their marginal edges with apertures 6 adapted to receive the spikes 7 or other suitable retaining elements to secure the rails to the tie 8. It will be noted that the base plates 5 of the fish plates terminate beyond the longitudi-

nal edges of the rail edges and are arranged in a plane coincident with that of the base of the rail so as to materially increase the rigidity of and reinforce the rail joint.

Mounted intermediate the upper surface of the tie 8 and the base of the rail is a chair 9 of a width greater than the combined widths of the base members of the rail and fish plates, when the latter are assembled, the chair being provided with openings through which the spikes 7 are passed. At one side of the rails, the chair 9 is formed to provide a lip 10 arranged at an angle to the chair and designed to overlie the flange 5 of one of the fish plates 2 and provided with an opening of sufficient area to substantially inclose the head of the spikes 6 arranged upon this side of the rail. The free end of the lip 10 terminates in a nut-engaging member 11 having a horizontal surface 12 designed to be inserted between the flange 5 and the nuts 4. From this construction it will be seen that the nuts are prevented from accidental displacement owing to the horizontal face 12 of the nut-engaging member 11 contacting with the same.

From the above description taken in connection with the accompanying drawings, it will be seen that we have provided a rail joint which is extremely cheap to manufacture, simple in construction and which forms a combined rail joint and nut lock, thereby greatly increasing the life and efficiency of the joint.

Having thus described our invention, what we claim and desire to secure by Letters Patent is:

The combination with the meeting ends of a pair of rails, and fish plates embracing the opposite sides of the webs of the rails and provided with flanges overlapping the rail bases and extending beyond such bases and provided adjacent to their edges with apertures suitably spaced apart, of a chair below said rails provided with spaced apertures registering with the first-mentioned apertures, said chair being further provided with an inclined lip at one of its longitudinal edges having relatively large openings therein spaced apart and alining with the

first-mentioned openings whereby a spike
may be driven through the apertures and
the head thereof disposed below the plane of
the upper surface of the lip, said lip termi-
5 nating in a nut engaging member having a
horizontal face adapted to engage the nuts
upon the bolts of the rail joint.

In testimony whereof we affix our signa-
tures in presence of two witnesses.

JACKSON A. McELROY.
WILLIAM B. FREEMAN.

Witnesses:

TIM. COLLIER,
JAS. A. LOCKE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."