

(No Model.)

M. MALONEY.
RAIL CHAIR.

No. 500,589.

Patented July 4, 1893.

Fig. 1.

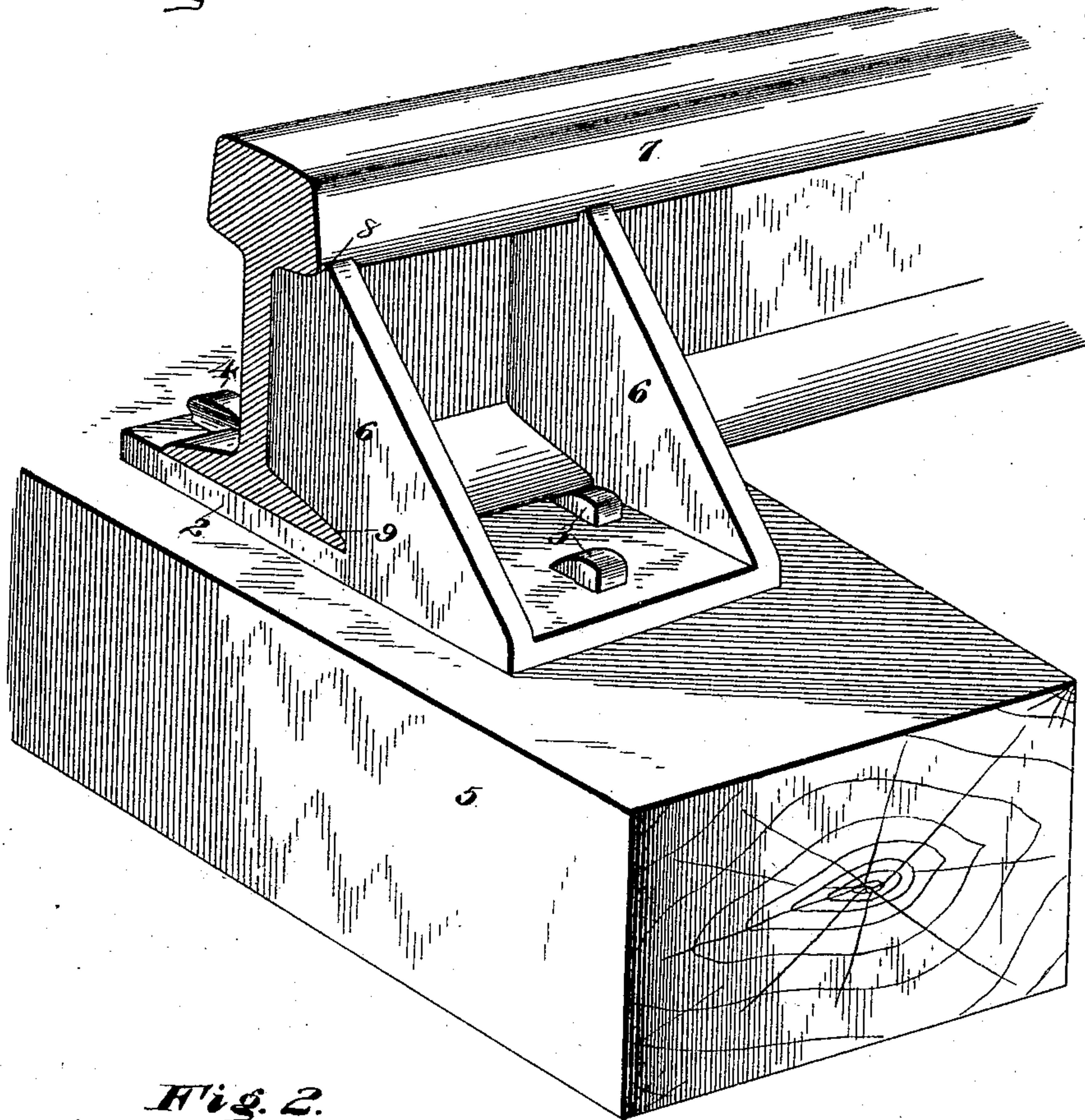
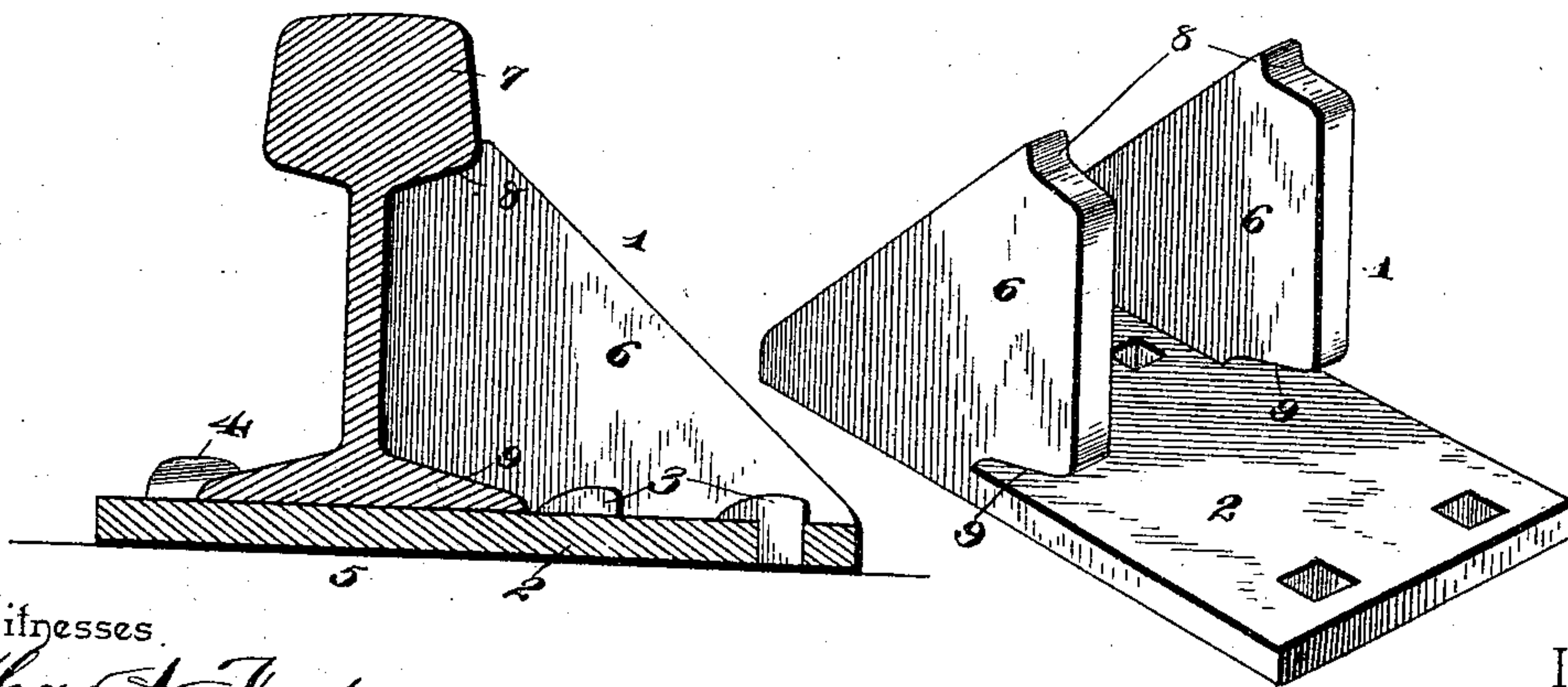


Fig. 2.

Fig. 3.



Witnesses

Chas. A. Ford

H. J. Riley

Byrnis Attorneys,

Inventor

Michael Maloney.

Chas. Snow & Co.

UNITED STATES PATENT OFFICE.

MICHAEL MALONEY, OF IRONTON, OHIO.

RAIL-CHAIR.

SPECIFICATION forming part of Letters Patent No. 500,589, dated July 4, 1893.

Application filed April 30, 1892. Serial No. 431,299. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL MALONEY, a citizen of the United States, residing at Iron-
ton, in the county of Lawrence and State of
Ohio, have invented a new and useful Rail-
Chair, of which the following is a specification.

The invention relates to improvements in
railway rail chairs.

The object of the present invention is to
simplify and improve the construction of rail-
way rail chairs, and to provide one which
will securely hold rails in their proper posi-
tion and prevent them spreading, sagging or
canting and which will prevent a rail cutting
into a cross-tie, and thereby greatly increase
the durability of the latter.

The invention consists in the construction
and novel combination and arrangement of
parts hereinafter fully described, illustrated
in the accompanying drawings and pointed
out in the claim hereto appended.

In the drawings—Figure 1 is a perspective
view of a rail chair constructed in accordance
with this invention and shown applied to a
rail. Fig. 2 is a vertical sectional view taken
longitudinally of the rail chair. Fig. 3 is a
perspective view of a rail chair detached.

Like numerals of reference indicate cor-
responding parts in all the figures of the draw-
ings.

1 designates a railway rail chair preferably
constructed of rolled metal, and composed of
a base-plate 2, which is secured by spikes 3
and 4 to a cross-tie 5, and vertical bracing
flanges 6 rising from the outer end of the
base-plate and arranged at the sides thereof
and having their outer edges inclined. The
inner edges of the vertical flanges 6 conform
to the configuration of a rail 7, and have re-
cesses 8 and 9 adapted to receive the bottom
flange and the head of the rail, the portion
between the recesses 8 and 9 fitting against
the web of the rail. The spikes 3 are ar-
ranged between the vertical bracing flanges
and pass through suitable openings in the
base-plate; and the spikes 4 are arranged at

the other end of the base plate on the op-
posite side of the rail and engage the bottom
flange at that side of the rail and secure the
latter in the recesses of the inner edges of the
vertical flanges, whereby the rail is securely
fastened in place. The base plate forms a
broad bearing for the rail which is thereby
prevented from sagging and canting, and the
chair effectually prevents any spreading.

It will be seen that the railway rail chair is
simple and inexpensive in construction, and
easy to manufacture, that it effects a great
saving of metal, and that it is capable of
holding a rail in proper position and prevent-
ing the same canting, sagging, or embedding
itself in a tie and destroying the latter.

The rail chair is applicable to frogs, switches,
curves, and analogous uses, and it greatly as-
sists in the preservation of a rail by main-
taining it in proper position and thereby in a
measure preventing it being splintered and
mashed by the wheels of a train.

What I claim is—

As a new article of manufacture, a rail
chair having a base-plate 2 provided with
suitable spike openings, and integral verti-
cally-disposed flanges, 6, flush with the side
edges of the base-plate, extending inwardly
from one end of the same and terminating at
a point adjacent to the center of its length,
the outer edges of said flanges being beveled
or inclined and the inner edges thereof being
provided with upper notches, 8, to receive
the tread, under-cut lower notches, 9, to receive
the flange, the lower sides of such notches
being in the plane of the upper surface of
the base-plate, and a vertical intermediate
portion to bear against the web of the rail,
substantially as specified.

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

MICHAEL MALONEY.

Witnesses:

EVAN T. WILLIAMS,
JOHN COMBS.