Title (en)

RAIL ARRANGEMENT

Title (de)

SCHIENENANORDNUNG

Title (fr)

AGENCEMENT DE RAIL

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Abstract (en)

[origin: US6471139B1] The invention relates to a rail arrangement for a rail superstructure such as a fixed railroad, comprising an elastic intermediate plate (3) which is located between the rail foot and a hard support (6) in the form of a concrete tie and has two through holes for the screws (7) to fasten the rails. For series mounting, which is the solution of choice, the elastic intermediate plate (3) is combined with an elastic intermediate layer (1) in such a way that the additional intermediate layer rests above the intermediate plate directly below the rail foot, whereby the intermediate layer (1) is separated from the intermediate plate (3) by a metal base plate (2) which serves to fasten the rail. According to the invention, the intermediate plate (3) consists of a single-piece vulcanisate made of a rubber mixture and has three structural zones related to a novel arrangement of protrusions (active surfaces) and recesses (inactive surfaces), whereby the inactive surfaces in the central zone are deeper than those in the two side zones. The invention also relates to other constructional features of the elastic intermediate plate (3).

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