

Title (en)  
RESILIENT RAIL FASTENING DEVICE

Title (de)  
FEDERNDE SCHIENENBEFESTIGUNG

Title (fr)  
FIXATION ELASTIQUE DE RAILS

Publication  
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Application  
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Abstract (en)  
[origin: WO9425675A2] A resilient rail fastening device (4) has an elastic intermediate layer (8) arranged between a rail foot (2) and a hard support, for example a sleeper (6), provided with a profile. The compression surface (17, 18) which faces the support (6) has substantially closed marginal strips (10-13) which in turn enclose a depressed surface (17, 18) from which project individual small-surface compression point (11). Such a geometric design of the elastic intermediate layer (8) allows a certain elastic rigidity of the intermediate layer (8) to be adjusted by modifying the compression surfaces (17, 18). A thermoplastic elastomer of non-crosslinked rubber or an ethylene-vinyl acetate copolymer are preferably used for the intermediate layers (8). Such intermediate layers are particularly suitable for highly stressed railways with a W-shaped superstructure. A special injection molding tool with exchangeable plates for shaping compression surfaces of different sizes is also disclosed.

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