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RAIL-TIE FASTENING ASSEMBLY FOR CONCRETE TIE

ABSTRACT OF THE DISCLOSURE

A rail-tie fastening assembly for fastening a rail to a concrete tie comprising a rail seat assembly and a rail anchor. The rail seat assembly includes a rail seat basin and a rail seat wherein the rail seat is disposed in the rail seat basin and bonded thereto with an elastomeric material having a void formed therein between the bottom of the rail seat and the bottom of the rail seat basin so as to produce a shear spring which transfers applied vertical load from the rail to the tie. The rail seat assembly is embedded in the tie and the rail anchor is adapted to engage a portion of the rail and to interlock with the rail seat assembly so as to cooperate with the rail seat assembly to fasten the rail to the tie.

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