

Title (en)
BRIDGE JOINT

Title (de)
FUGE FÜR BRÜCKEN

Title (fr)
RACCORD DE PONT

Publication
EP 1187954 A1 20020320 (EN)

Application
EP 00937078 A 20000608

Priority

- GB 0002224 W 20000608
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Abstract (en)
[origin: WO0079055A1] The bridge joint (1) has steel edge beams (4, 5) arranged at the edge of the concrete (C) of the roadway sections. Each edge beam has a circular cross section groove (9), which opens towards the gap (G) between the roadway sections and the opposite edge beam. Cross beams (10) are regularly spaced along the length of the joint, i.e. across the width of the roadway. To each end of the crossbeams, a spherical steel ball (14) is fixed, as by welding or pinning. The balls are sized to fit in the groove (9). The crossbeams support a number of intermediate roadway beams (20). They are of general I-beam shape, with small grooves (21) in their heads (22). The edge flanges (8) of the edge beams also have such small grooves (21). Via these a diaphragm seal (23) is connected between each adjacent pair of roadway beams. Feet (24) of the intermediate beams rest on the crossbeams. These transfer road loads to the edge beams via the balls (14) and lips (16) at the lower side of the mouth of the grooves (9). To maintain the intermediate beams (20) evenly spaced, cams (17) are fixed to the underside of the crossbeams (10). They act against lower extensions (25) of the beams (20), the extensions being fitted to the beams after laying of them on the crossbeams.

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