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Rodriguez Plaza et al.

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(54) **HIGH-SPEED RAILWAY AERODYNAMIC SLEEPER**

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CPC E01B 3/32; E01B 3/34; E01B 3/36; E01B 3/38; E01B 3/40; E01B 3/42; E01B 3/00; E01B 3/16; E01B 3/18
See application file for complete search history.

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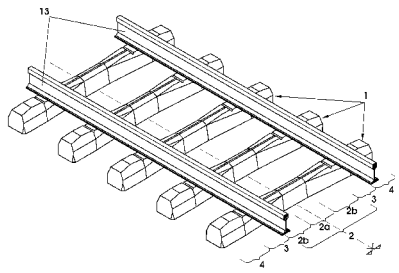
(57) **ABSTRACT**

A high-speed railway aerodynamic sleeper (**1**) including one central area (**2**), two support areas (**3**) on each side of the central area (**2**), on which the rails are placed, and two outer areas (**4**), located at the ends of the sleeper (**1**), following the support areas (**3**). The cross-section of the sleeper (**1**) includes, on the central area (**2**), and the support areas (**3**), and the two outer areas (**4**), a first bottom section (**5**) comprising a first polygon (**7**) having at least 4 sides and a second top section (**6**) having at least one second polygon (**8**) of n sides, n being≥4, the first bottom section (**5**) and the second top section (**6**) being attached to each other, and the top base (**10**) of the first polygon (**7**) and the bottom base (**9**) of the second polygon (**8**) share their sides.

7 Claims, 10 Drawing Sheets