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Fan et al.

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(54) **OBSTACLE REMOVING AND ENERGY ABSORBING DEVICE AND LEADING CAR OF MOTOR TRAIN UNIT**

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See application file for complete search history.

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(57) **ABSTRACT**

An obstacle removing and energy absorbing device provided with an obstacle removing beam (6) and a bumper cross-beam (15) which are oppositely arranged, an energy-absorbing tube assembly with an energy-absorbing tube (9) is fixedly connected between the obstacle removing beam (6) and the bumper cross-beam (15), a mounting base (8) is fixedly connected with one end of the energy-absorbing tube (9), a crushing support (13) is threaded onto the other end of the energy-absorbing tube (9), the crushing support (13) is provided with a variable-diameter through-hole, a crushing-convex portion (20) is provided in the variable-diameter through-hole, a concave portion (21) matched with the crushing-convex portion (20) is arranged at an end portion where the energy-absorbing tube (9) is penetrated into the crushing support (13), the mounting base (8) is fixedly connected with the obstacle removing beam (6), the crushing support (13) is fixedly connected with the bumper cross-beam (15).

20 Claims, 4 Drawing Sheets

