

Title (en)  
HIGHLY INTEGRATED MULTIBAND SHARK FIN ANTENNA FOR A VEHICLE

Title (de)  
HOCHINTEGRIERTE MULTIBAND-FINNENANTENNE FÜR EIN FAHRZEUG

Title (fr)  
ANTENNE À CAPOT MULTIBANDE À HAUTE INTÉGRATION DESTINÉE À UN VÉHICULE

Publication  
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Application  
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Abstract (en)  
[origin: WO2011051454A1] The invention relates to a multiband shark fin antenna (1) for a vehicle. To this end, the multiband shark fin antenna (1) comprises at least one transmitting and one receiving antenna element (2, 3, 4) from the group consisting of AM/FM antennas, telephone and RKE antennas (2), GPS antenna (3), SDARS antenna (4), stacked patch antenna, DAP antenna, WLAN antenna, WIMAX antenna or DRM antenna. The antenna elements (2, 3, 4) are disposed beneath a joint shark fin-shaped outer cover (5) on the exterior of the vehicle. On the inside, the shark fin-shaped outer cover (5) comprises an antenna circuit board (6), on which the antenna elements (2, 3, 4) are disposed. Electronic adjustment or amplifier circuits (7) comprising transceiver, tuner or receiver are disposed on both the upper face and the lower face of the antenna circuit board (6). Shielding plates (8), which shield the adjustment or amplifier circuits (7) comprising transceiver, tuner or receiver with respect to the antenna elements (2, 3, 4), are disposed on the upper side of the antenna circuit board (6). In addition, at least one digital data connection is present on said multiband antenna.

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