

Title (en)
PAYLOAD FOR A MULTI-BEAM SATELLITE

Title (de)
NUTZLAST FÜR EINEN MEHRSTRAHLENSATELLITEN

Title (fr)
CHARGE UTILE POUR SATELLITE MULTIFAISCEAUX

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Application
EP 10763167 A 20100924

Priority
• FR 0956617 A 20090924
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Abstract (en)
[origin: WO2011036275A1] The present invention relates to a payload (10), comprising: one or more antennas (A_RX) for receiving polarized radiofrequency signals (RF); a device (REP) for regenerating radiofrequency signals (RF) by filtering, frequency transposition, and amplification; and antennas (A_TX) for transmitting the regenerated radiofrequency signals (SP) to one or more terrestrial terminals (6). The invention is characterized, in terms of the outbound path, in that the regeneration device (REP) includes a plurality of regeneration channels (100), each channel including an amplification device (HPA) capable of amplifying a plurality of radiofrequency signals (RF) having separate frequency bands, and in that the transmission antennas (A_TX) are capable of transmitting regenerated radiofrequency signals (SP), via a single regeneration channel (100), to non-contiguous basic coverage areas (C), respectively, said basic coverage areas belonging to a single cellular layout that uses at least two separate frequency bands and two separate polarizations.

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