

Title (en)  
PAYLOAD FOR A MULTI-BEAM SATELLITE

Title (de)  
NUTZLAST FÜR EINEN MEHRSTRAHLENSATELLITEN

Title (fr)  
CHARGE UTILE POUR SATELLITE MULTIFAISCEAUX

Publication  
**EP 2481171 A1 20120801 (FR)**

Application  
**EP 10763167 A 20100924**

Priority  
• FR 0956617 A 20090924  
• EP 2010064190 W 20100924

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.

IPC 8 full level  
**H04B 7/185** (2006.01); **H04B 7/204** (2006.01)

CPC (source: EP US)  
**H04B 7/18515** (2013.01 - EP US); **H04B 7/2041** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011036275A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2950497 A1 20110325; FR 2950497 B1 20111021**; EP 2481171 A1 20120801; US 2012252356 A1 20121004; WO 2011036275 A1 20110331

DOCDB simple family (application)  
**FR 0956617 A 20090924**; EP 10763167 A 20100924; EP 2010064190 W 20100924; US 201013497893 A 20100924