

Title (en)
Antenna feed assembly

Title (de)
Antennenspeisungsanordnung

Title (fr)
Ensemble d'alimentation d'antenne

Publication
EP 2104177 A1 20090923 (EN)

Application
EP 08200009 A 20080318

Priority
EP 08200009 A 20080318

Abstract (en)
An antenna feed assembly (15) is provided which includes at least two elongate feed chains (1,2) lying adjacent one another. Each feed chain is adapted to transmit or receive electromagnetic radiation between itself and the antenna (34) along a longitudinal feed axis (3,4) thereof via a transmit/receive element (7). The feed chains (1,2) are held in fixed lateral relationship to one another by first and second mountings (5,6) spaced apart axially of the feed chains. The transmit/receive elements (7,8) extend axially from the first mounting (5) towards the antenna and the second mounting (6) is positioned on a side of the first mounting (5) remote from the antenna. The first mounting (5) has a lower coefficient of thermal expansion in the lateral direction than the second mounting (6) whereby translational movement of each transmit/receive element (7,8) in the lateral direction owing to temperature change of the assembly (15) will be reduced.

IPC 8 full level
H01Q 1/00 (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/28** (2006.01); **H01Q 19/17** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP)
H01Q 1/002 (2013.01); **H01Q 1/1207** (2013.01); **H01Q 1/288** (2013.01); **H01Q 19/17** (2013.01); **H01Q 25/007** (2013.01)

Citation (search report)
• [A] US 4090203 A 19780516 - DUNCAN JAMES W
• [A] SCHENNUM G H ET AL: "Antenna subsystem for the INTELSAT VII spacecraft", 19900204; 19900204 - 19900209, 4 February 1990 (1990-02-04), pages 83 - 92, XP010010338

Cited by
EP4128436A4; EP2706609A1; FR2995456A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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