

Title (en)

A HIGHLY ELLIPTICAL ORBIT FOR COMMUNICATIONS SATELLITES

Title (de)

STARK ELLIPTISCHER ORBIT FÜR KOMMUNIKATIONSSATELLITEN

Title (fr)

ORBITE FORTEMENT ELLIPTIQUE POUR SATELLITES DE COMMUNICATION

Publication

EP 1512233 A2 20050309 (EN)

Application

EP 02792458 A 20021220

Priority

- US 0240662 W 20021220
- US 34183801 P 20011221

Abstract (en)

[origin: WO03061141A2] An optimized orbit for a communications satellite may include a highly elliptical orbit ("HEO") with optimized inclination. In one embodiment, the HEO orbit may be a lower inclination variation of a tundra orbit having a teardrop shaped ground track and an inclination approximately between 53 degrees and 56 degrees. The communications satellite following the lower inclination HEO orbit may be a part of a satellite constellation. The satellite constellation may include a three-satellite or a six-satellite constellation. In one embodiment, the satellite constellation may be initially implemented as a three-satellite constellation, and three more satellites may be launched later to form a six-satellite constellation.

IPC 1-7

H04B 7/195

IPC 8 full level

B64G 1/10 (2006.01); **B64G 1/24** (2006.01)

CPC (source: EP)

B64G 1/1007 (2013.01); **B64G 1/1085** (2013.01); **B64G 1/242** (2013.01); **H04B 7/195** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03061141 A2 20030724; **WO 03061141 A3 20031218**; AU 2002357912 A1 20030730; AU 2002357912 A8 20030730; EP 1512233 A2 20050309

DOCDB simple family (application)

US 0240662 W 20021220; AU 2002357912 A 20021220; EP 02792458 A 20021220