Title (en)
  Locking threaded connection coaxial connector

Title (de)
  Koaxialstecker mit Sperrgewindeverbindung

Title (fr)
  Verrouillage de connecteur coaxial de connexion filetée

Publication
  EP 2083484 A3 20110518 (EN)

Application
  EP 09000703 A 20090120

Priority
  • US 2280808 P 20080122
  • US 34990509 A 20090107

Abstract (en)
  [origin: EP2083484A2] A coaxial connector includes a clamp nut dimensioned to fit over the outer conductor, the clamp nut having threads that mate with corresponding threads on the connector body. A clamp element is positioned between the clamp nut and a leading edge of the outer conductor. The connector body having an annular wedge surface dimensioned to mate with the leading edge of the outer conductor. The threads draw the clamp nut towards the connector body, to clamp the leading edge between the clamp element and the annular wedge surface. A surface-to-surface positive stop between the clamp nut and the connector body limits the compression force to a predetermined maximum by preventing further movement of the clamp nut towards the connector body. A thread lock is engaged as the positive stop is reached; the thread lock inhibiting unthreading of the clamp nut from the connector body.

IPC 8 full level
  H01R 9/05 (2006.01); H01R 13/646 (2011.01)

CPC (source: EP KR)
  H01R 9/05 (2013.01 - KR); **H01R 9/0521** (2013.01 - EP); **H01R 9/0527** (2013.01 - EP); **H01R 13/639** (2013.01 - KR); H01R 24/564 (2013.01 - EP); H01R 2103/00 (2013.01 - EP)

Citation (search report)
  • [YD] US 6793529 B1 20040921 - BUENZ LARRY [US]
  • [Y] US 6113410 A 20000905 - HEIT HENRY R [US], et al
  • [Y] DE 2136500 A1 19730201 - SPINNER GEORG, et al
  • [Y] DE 9301171 U1 19930401 - LUMBERG KARL GMBH & CO [DE]
  • [Y] DE 7128029 U 19711007

Cited by
  US8558746B2

Designated contracting state (EPC)
  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 TR

Designated extension state (EPC)
  AL BA RS

DOCDB simple family (publication)
  EP 2083484 A2 20090729; **EP 2083484 A3 20110518**; KR 20090080916 A 20090727

DOCDB simple family (application)
  EP 09000703 A 20090120; KR 20090005446 A 20090122