

Title (en)
Apparatus for selecting a beamforming direction

Title (de)
Gerät zur Bestimmung der Keulenrichtung

Title (fr)
Appareil de sélection de la direction du faisceau

Publication
EP 1845584 A1 20071017 (EN)

Application
EP 06112581 A 20060412

Priority
EP 06112581 A 20060412

Abstract (en)
Apparatus for selecting the beamforming direction of a node in a wireless network, said apparatus comprising: a control module for controlling the beamforming direction of an antenna connected to said apparatus, said control module changing the beam angle in individual steps; a receiving module for overhearing the ongoing transmissions and for extracting one or more neighborhood parameters being indicative of the overheard transmission at the different angle steps; said control module calculating a decision parameter for each angle step and comparing said decision parameters of said different angle steps to select based thereupon the angle corresponding to the optimum decision parameter as the beamforming direction for said antenna.

IPC 8 full level
H01Q 3/26 (2006.01)

CPC (source: EP)
H01Q 1/1257 (2013.01); **H01Q 3/08** (2013.01); **H01Q 3/26** (2013.01)

Citation (search report)
• [A] US 2005047322 A1 20050303 - SONDUR LAKSHMIPATHI [IN]
• [A] US 6970722 B1 20051129 - LEWIS MICHAEL E [US]
• [A] US 2006040706 A1 20060223 - WU SHIQUAN [CA], et al

Cited by
CN115002002A; FR2939267A1; GB2479197A; GB2479197B; EP2197238A1; FR2939991A1; KR101226367B1; KR101227305B1; CN107070523A; EP2071662A1; US8494567B2; WO2009114621A3; US8169368B2; US8902822B2

Designated contracting state (EPC)
DE GB

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1845584 A1 20071017; EP 1845584 B1 20081210; DE 602006004175 D1 20090122; JP 2007288786 A 20071101; JP 4629065 B2 20110209

DOCDB simple family (application)
EP 06112581 A 20060412; DE 602006004175 T 20060412; JP 2007104702 A 20070412