

Title (en)

Small extendible antenna for mobile terminals

Title (de)

Kleine ausziehbare Antenne für mobile Endgeräte

Title (fr)

Petite antenne extensible pour terminaux mobiles

Publication

**EP 0986131 A3 20000405 (EN)**

Application

**EP 99118205 A 19990913**

Priority

KR 19980037517 A 19980911

Abstract (en)

[origin: EP0986131A2] There is provided a small extendible antenna in a transceiver. An antenna housing is installed on the body housing, a helical antenna is installed inside the antenna housing, and an extendible rod antenna has a whip portion for acting as an effective antenna in an extended state, a conductive core wire installed inside the whip portion at a lower end thereof, and a metal pipe connected to the lower end of the whip portion. The conductive core wire is extended from and retracted into the metal pipe. <IMAGE> <IMAGE>

IPC 1-7

**H01Q 1/24**

IPC 8 full level

**H01Q 1/08** (2006.01); **H01Q 1/10** (2006.01); **H01Q 1/24** (2006.01)

CPC (source: EP KR)

**H01Q 1/08** (2013.01 - KR); **H01Q 1/244** (2013.01 - EP)

Citation (search report)

- [A] EP 0372720 A1 19900613 - TOSHIBA KK [JP]
- [A] EP 0855759 A2 19980729 - LK PRODUCTS OY [FI]
- [A] EP 0609103 A1 19940803 - NEC CORP [JP]
- [A] FR 2730094 A1 19960802 - SAMSUNG ELECTRONICS CO LTD [KR]

Cited by

AU767907B2; GB2380612A; GB2380612B; US6927744B2; US6756943B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0986131 A2 20000315**; **EP 0986131 A3 20000405**; CN 1251948 A 20000503; JP 2000101317 A 20000407; KR 100299026 B1 20010922; KR 20000019425 A 20000406

DOCDB simple family (application)

**EP 99118205 A 19990913**; CN 99118647 A 19990910; JP 25831199 A 19990913; KR 19980037517 A 19980911