

Title (en)  
Retractable top load antenna

Title (de)  
Mit einer Last an der Spitze versehene versenkbare Antenne

Title (fr)  
Antenne rétractable à charge en sommet

Publication  
**EP 0718909 A2 19960626 (EN)**

Application  
**EP 95308453 A 19951124**

Priority  
GB 9426229 A 19941223

Abstract (en)  
An antenna assembly comprises an elongate antenna element (11) mounted in a support (5) and movable between a retracted position and an extended position. A helical antenna element (12) in electrical contact with the helical element is carried at one end of the elongate element. The coupling between the feed point and the antenna in the retracted and extended positions allow the same matching circuitry to be used in both conditions. The invention provides a compact and convenient dual antenna arrangement ideally suited for use in a portable cellular radio telephone.  
<IMAGE>

IPC 1-7  
**H01Q 1/22**; **H01Q 9/30**

IPC 8 full level  
**H01Q 1/08** (2006.01); **H01Q 1/10** (2006.01); **H01Q 1/22** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01); **H01Q 9/30** (2006.01); **H01Q 9/32** (2006.01)

CPC (source: EP)  
**H01Q 1/244** (2013.01); **H01Q 1/362** (2013.01); **H01Q 9/30** (2013.01)

Citation (applicant)  
• US 4868576 A 19890919 - JOHNSON JR ROBERT M [US]  
• EP 9115134 A

Cited by  
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Designated contracting state (EPC)  
DE GB NL SE

DOCDB simple family (publication)  
**EP 0718909 A2 19960626**; **EP 0718909 A3 19960807**; **EP 0718909 B1 20030806**; DE 69531442 D1 20030911; DE 69531442 T2 20040624; GB 2296603 A 19960703; GB 2296603 B 19990217; GB 9426229 D0 19950222; JP H08237013 A 19960913

DOCDB simple family (application)  
**EP 95308453 A 19951124**; DE 69531442 T 19951124; GB 9426229 A 19941223; JP 33446095 A 19951222