

Title (en)  
A whip antenna for use in vehicles.

Title (de)  
Stabantenne für Fahrzeuge.

Title (fr)  
Antenne fouet pour véhicules.

Publication  
**EP 0380231 B1 19950315 (EN)**

Application  
**EP 90300465 A 19900117**

Priority  
JP 621389 U 19890123

Abstract (en)  
[origin: EP0380231A2] A whip antenna for vehicles including an antenna element (11) with a skirt-form coupling member (12, 22, 32) provided on the antenna element. The coupling member is, at a predetermined point on the antenna, prevented from moving toward the lower end of the antenna and has a screw thread (13, 23, 33) on its inner surface. The lower end of the antenna is inserted into an antenna attachment base (15) installed in a vehicle body, and the coupling member is screwed to this antenna attachment base.

IPC 1-7  
**H01Q 1/12**

IPC 8 full level  
**H01Q 1/10** (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/22** (2006.01)

CPC (source: EP)  
**H01Q 1/1214** (2013.01)

Cited by  
US6014106A; FR2671769A1

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 0380231 A2 19900801; EP 0380231 A3 19910327; EP 0380231 B1 19950315**; DE 69017727 D1 19950420; DE 69017727 T2 19951116; ES 2072382 T3 19950716; JP H0298507 U 19900806

DOCDB simple family (application)  
**EP 90300465 A 19900117**; DE 69017727 T 19900117; ES 90300465 T 19900117; JP 621389 U 19890123