

Title (en)  
Circular-to-linear polarized wave transducer

Title (de)  
Vorrichtung zur Umwandlung zirkular polarisierter Wellen in linear polarisierte Wellen

Title (fr)  
Transducteur d'ondes polarisées circulaires en linéaires

Publication  
**EP 1154510 A3 20020710 (DE)**

Application  
**EP 01109544 A 20010417**

Priority  
DE 20006916 U 20000414

Abstract (en)  
[origin: US2002154402A1] A device is disclosed for converting a circularly polarized electromagnetic radiation into linearly polarized electromagnetic radiation. The device includes a depolarizer with depolarizing elements supported in a polarization mode converter for rotation between a vertical output and a horizontal output. A depolarization position for circularly polarized radiation exists between the horizontal output and the vertical output. The rotation direction of the depolarizer can be adjusted to selectively direct left-handed circularly polarized and right-handed circularly polarized radiation either to the vertical or the horizontal output.

IPC 1-7  
**H01P 1/17**; H01Q 21/24; H01Q 15/24; H01Q 13/02; H01P 1/165

IPC 8 full level  
**H01P 1/17** (2006.01)

CPC (source: EP US)  
**H01P 1/17** (2013.01 - EP US)

Citation (search report)

- [XP] EP 1032069 A1 20000830 - HUGHES ELECTRONICS CORP [US]
- [A] EP 0433092 A2 19910619 - SHARP KK [JP]
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- [A] JP H07321542 A 19951208 - FUJITSU GENERAL LTD

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Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**US 2002154402 A1 20021024; US 6693497 B2 20040217**; AT E304225 T1 20050915; DE 20006916 U1 20010613; DE 50107331 D1 20051013; EP 1154510 A2 20011114; EP 1154510 A3 20020710; EP 1154510 B1 20050907

DOCDB simple family (application)  
**US 83587701 A 20010416**; AT 01109544 T 20010417; DE 20006916 U 20000414; DE 50107331 T 20010417; EP 01109544 A 20010417