

Title (en)
A phase shifter

Title (de)
Phasenschieber

Title (fr)
Déphaseur

Publication
EP 2259379 A3 20110302 (EN)

Application
EP 10163719 A 20100524

Priority
IE 20090401 A 20090522

Abstract (en)
[origin: EP2259379A2] The present invention is directed to a phase shifter comprising a primary printed circuit board (PCB) having at least an arcuate co-centric unconnected double track printed thereon, and, a secondary PCB having printed thereon at least an arcuate co-centric double track connected by a radially extending link track located at neighbouring ends of the double track; whereby, the secondary PCB is rotatably mounted on the primary PCB such that the arcuate co-centric double tracks on both PCBs partially overlap one another so as to be in electrical communication with one another. The advantage of providing arcuate co-centric tracks on the secondary PCB and the primary PCB is that rotation of the secondary PCB may be used to increase the length of the completed track circuit rather than a translational movement of the secondary PCB. Therefore, no additional area on the primary PCB has to be reserved to accommodate the movement of the secondary PCB. A variable phase shifter and a differential phase shifter may also be constructed in analogous manners.

IPC 8 full level
H01Q 3/32 (2006.01); **H01P 1/18** (2006.01); **H01Q 1/24** (2006.01)

CPC (source: EP)
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Citation (search report)
• [XY] JP S5875901 A 19830507 - NIPPON ELECTRIC CO
• [XY] JP H0514004 A 19930122 - FUJITSU LTD
• [IY] WO 03036759 A1 20030501 - QINETIQ LTD [GB], et al
• [I] WO 03036756 A2 20030501 - QINETIQ LTD [GB], et al
• [Y] US 2005219133 A1 20051006 - ELLIOT ROBERT D [US]
• [Y] US 2005046514 A1 20050303 - JANOSCHKA DARIN M [US]

Cited by
CN110474135A; CN105514537A; CN109687062A; FR2977381A1; CN103636065A; WO2013000987A1; WO2024187766A1

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