

Title (en)  
UNDULATOR AND METHOD FOR OPERATION THEREOF

Title (de)  
UNDULATOR UND VERFAHREN ZU DESSEN BETRIEB

Title (fr)  
ONDULEUR ET PROCEDE DE FONCTIONNEMENT

Publication  
**EP 1692923 A2 20060823 (DE)**

Application  
**EP 04820401 A 20041127**

Priority  
• EP 2004013466 W 20041127  
• DE 10358225 A 20031212

Abstract (en)  
[origin: US2006158288A1] In an undulator for the generation of synchrotron radiation from a particle beam introduced into the undulator, two partial undulators are provided each comprising a conductor of superconductive material which, when a current is conducted therethrough, generates an undulator field that extends perpendicularly to the current flow, and the superconductive conductors are arranged in the individual partial undulators such that the undulator fields generated are not parallel, whereby, by controlling the energization of the two partial undulators, the polarization direction of the synchrotron radiation can be adjusted without mechanical movements.

IPC 8 full level  
**H05H 7/04** (2006.01)

CPC (source: EP US)  
**H05H 7/04** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005060322A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2006158288 A1 20060720; US 7129807 B2 20061031**; AT E360976 T1 20070515; DE 10358225 B3 20050630;  
DE 502004003647 D1 20070606; DK 1692923 T3 20070820; EP 1692923 A2 20060823; EP 1692923 B1 20070425; JP 2007514285 A 20070531;  
JP 4445973 B2 20100407; WO 2005060322 A2 20050630; WO 2005060322 A3 20060223

DOCDB simple family (application)  
**US 36342706 A 20060227**; AT 04820401 T 20041127; DE 10358225 A 20031212; DE 502004003647 T 20041127; DK 04820401 T 20041127;  
EP 04820401 A 20041127; EP 2004013466 W 20041127; JP 2006543422 A 20041127