

Title (en)
PERIPHERAL HILL SECTOR DESIGN FOR CYCLOTRON

Title (de)
PERIPHERES HÜGELSEKTORDESIGN FÜR EIN ZYKLOTRON

Title (fr)
CONCEPTION DE SECTEURS PÉRIPHÉRIQUES DE COLLINES POUR CYCLOTRON

Publication
EP 3244708 B1 20180905 (EN)

Application
EP 16169490 A 20160513

Priority
EP 16169490 A 20160513

Abstract (en)
[origin: EP3244708A1] A magnet pole for an isochronous sector-focused cyclotron comprising hill and valley sectors alternatively distributed around a central axis, Z, each hill sector comprises an upper surface bounded by four edges: an upper peripheral edge, an upper central edge, a first and a second upper lateral edges. The upper peripheral edge of a hill sector comprises an arc of circle which centre is offset with respect to the central axis, and which radius, R_h , is not more than 85% of a distance, L_h , from the central axis to a midpoint of the upper peripheral edge, which is equidistant to the first and second upper distal ends ($R_h / L_h \leq 85\%$).

IPC 8 full level
H05H 7/04 (2006.01)

CPC (source: CN EP)
H05H 7/04 (2013.01 - CN EP); **H05H 13/005** (2013.01 - CN EP)

Cited by
FR3133513A1; WO2023170116A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3244708 A1 20171115; EP 3244708 B1 20180905; CA 2965640 A1 20170712; CA 2965640 C 20180501; CN 107371317 A 20171121; CN 107371317 B 20190531; CN 207460578 U 20180605; JP 2017204472 A 20171116; JP 6285593 B2 20180228

DOCDB simple family (application)
EP 16169490 A 20160513; CA 2965640 A 20170501; CN 201710320771 A 20170509; CN 201720510665 U 20170509; JP 2017094429 A 20170511