

Title (en)
A CONTROL DEVICE AND A NUCLEAR REACTOR PLANT

Title (de)
STEUEREINRICHTUNG UND KERNREAKTORANLAGE

Title (fr)
DISPOSITIF DE COMMANDE ET REACTEUR NUCLEAIRE

Publication
EP 1946329 A1 20080723 (EN)

Application
EP 06784232 A 20060908

Priority
• SE 2006050319 W 20060908
• SE 0502482 A 20051109

Abstract (en)
[origin: WO2007055645A1] The present invention refers to a control rod device for a nuclear reactor (1) having a core which comprises nuclear fuel and which is arranged to permit through-flowing of water. The control rod device (2) comprises a moveable control rod member (6) and a stationary guide member (7). The control rod member may be displaced axially into the core and comprises a control rod (8) with a neutron-absorbing substance. The control rod member is displaceable in the guide member between a first end position outside the core and a second end position in the core. A retarding device is arranged to retard the control rod member when it approaches the second end position. The retarding device comprises an eddy current brake having a first eddy current unit (31) on one of the control rod member and the guide member and a second eddy current unit (32) on the other of the control rod member and the guide member.

IPC 8 full level
G21C 7/20 (2006.01); **G21C 9/02** (2006.01); **H02K 49/04** (2006.01)

CPC (source: EP SE)
G21C 7/20 (2013.01 - EP SE); **G21C 9/02** (2013.01 - SE); **H02K 49/04** (2013.01 - SE); **H02K 49/043** (2013.01 - EP); **Y02E 30/30** (2013.01 - EP)

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

DOCDB simple family (publication)
WO 2007055645 A1 20070518; EP 1946329 A1 20080723; EP 1946329 A4 20120411; SE 0502482 L 20070510; SE 529279 C2 20070619

DOCDB simple family (application)
SE 2006050319 W 20060908; EP 06784232 A 20060908; SE 0502482 A 20051109