

Title (en)
MECHANICAL HOUR AND MINUTE DISPLAY DEVICE

Title (de)
MECHANISCHE VORRICHTUNG ZUR ANZEIGE VON STUNDEN UND MINUTEN

Title (fr)
DISPOSITIF MECANIQUE D AFFICHAGE DES HEURES ET DES MINUTES

Publication
EP 1546818 B1 20060712 (FR)

Application
EP 03798851 A 20030929

Priority
• EP 03798851 A 20030929
• CH 0300645 W 20030929
• EP 02405843 A 20021001

Abstract (en)
[origin: EP1406131A1] Two concentric disks (1,2) bear peripheral numerals which enable them to indicate twelve hours through a dial plate slot. An adjacent dial plate slot shows peripheral numbers on two non concentric disks (3,4) to give a complete numerical time display. The hour disks are driven through spring loaded rockers and the minute disks through instantaneous step cams. Further disks (27,49,51) show am/pm, day and moon position

IPC 8 full level
G04B 19/20 (2006.01); **G04B 19/24** (2006.01); **G04B 19/25** (2006.01); **G04B 19/253** (2006.01)

CPC (source: EP US)
G04B 19/202 (2013.01 - EP US); **G04B 19/25** (2013.01 - EP US)

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

DOCDB simple family (publication)
EP 1406131 A1 20040407; AT E333115 T1 20060815; AU 2003264222 A1 20040423; AU 2003264222 A8 20040423; CN 100389367 C 20080521; CN 1685292 A 20051019; DE 60306790 D1 20060824; EP 1546818 A2 20050629; EP 1546818 B1 20060712; HK 1074082 A1 20051028; JP 2006501451 A 20060112; JP 4594094 B2 20101208; US 2005152225 A1 20050714; US 7075860 B2 20060711; WO 2004031869 A2 20040415; WO 2004031869 A3 20040805

DOCDB simple family (application)
EP 02405843 A 20021001; AT 03798851 T 20030929; AU 2003264222 A 20030929; CH 0300645 W 20030929; CN 03823184 A 20030929; DE 60306790 T 20030929; EP 03798851 A 20030929; HK 05106317 A 20050725; JP 2004540448 A 20030929; US 7440705 A 20050308