

Title (en)  
BLOCKING ELEMENT, PARTICULARLY FOR A GATE USED AS A CHECKPOINT

Title (de)  
SPERRELEMENT, INSBESONDERE FÜR EINE DURCHGANGSSPERRE ZUR PERSONENDURCHGANGSKONTROLLE

Title (fr)  
ELEMENT D'OBSTACLE NOTAMMENT BARRIERE DE PASSAGE DESTINEE AU CONTROLE DE PASSAGE DE PERSONNE

Publication  
**EP 1929116 B1 20121024 (DE)**

Application  
**EP 06791405 A 20060927**

Priority  
• DE 2006001704 W 20060927  
• DE 202005015373 U 20050929

Abstract (en)  
[origin: DE202005015373U1] The two wing sectors (4, 4') pivot on a common axis (5) close to the floor. Their radius is approximately the height of the support (2), and corresponds with the height of the casing. Both are controlled by the drive motor (7) over a single lever system (10, 13, 14). This system comprises a drive lever (10) and transmission levers (13, 14). The drive lever has three connection points lying at corners of a notional scalene triangle. At the first corner, the drive lever has a fixed connection with the shaft (8) of the drive motor. At the second corner, the end of the first transmission lever (13) is connected. The other end is connected to a barrier sector (4). At the third corner, the second lever (14) is connected, its other end being connected to the other barrier sector (4'). The first, outer barrier sector (4) has two sidewalls (6) with known circular sector configuration. They are joined together by a corresponding, curved outer wall (15). The other, inner barrier sector telescopes into the hollow space so formed. Linkages of these sectors to the drive lever are further detailed, together with further elaboration of the mechanism. The drive motor is a brushless DC motor acting as a direct drive. Guide rails assist sector pivoting. Details of barrier operation and locking are provided.

IPC 8 full level  
**E06B 11/08** (2006.01); **E06B 11/02** (2006.01); **G07C 9/02** (2006.01)

CPC (source: EP US)  
**E06B 11/085** (2013.01 - EP US); **G07C 9/10** (2020.01 - EP US)

Cited by  
FR3088086A1; WO2020089420A1; CN103233642A; DE102017122562A1; WO2019063141A1; EP3874112B1

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)  
**DE 202005015373 U1 20051215**; BR PI0616783 A2 20110705; CN 101351612 A 20090121; CN 101351612 B 20121121;  
DE 112006003243 A5 20080828; DK 1929116 T3 20130128; EP 1929116 A1 20080611; EP 1929116 B1 20121024; ES 2397398 T3 20130306;  
HK 1124373 A1 20090710; MY 149820 A 20131014; PT 1929116 E 20130125; US 2009107049 A1 20090430; US 8020603 B2 20110920;  
WO 2007036216 A1 20070405; ZA 200801974 B 20090826

DOCDB simple family (application)  
**DE 202005015373 U 20050929**; BR PI0616783 A 20060927; CN 200680036336 A 20060927; DE 112006003243 T 20060927;  
DE 2006001704 W 20060927; DK 06791405 T 20060927; EP 06791405 A 20060927; ES 06791405 T 20060927; HK 09101739 A 20090224;  
MY PI20080848 A 20060927; PT 06791405 T 20060927; US 99297306 A 20060927; ZA 200801974 A 20080303