

Title (en)  
An operating unit for doors and windows

Title (de)  
Bedieneinheit für Türen und Fenster

Title (fr)  
Unité d'actionnement pour portes et fenêtres

Publication  
**EP 1460216 B1 20090513 (EN)**

Application  
**EP 04425120 A 20040226**

Priority  
IT BO20030118 A 20030305

Abstract (en)  
[origin: EP1460216A2] Described is an operating unit for doors or windows of the type comprising a fixed frame (3) and a mobile frame (4) that opens in one or more configurations. The operating unit (1) has, slidably fitted within a channel (6) made in the profile constituting the mobile frame (4), at least one operating rod (7) for a handle assembly (8) which acts in conjunction with drive means (9) to make the operating rod (7) slide in both directions along the channel (6). The operating rod (7) is equipped with locking and/or operating elements (10) actuated by the handle (8) so as to enable the mobile frame (4) to be moved into the open and closed configurations. The operating rod (7) of the operating unit consists of a single profile made of a synthetic, plastic material with a high modulus of elasticity. The drive means (9) are applied to the rod (7) and comprise at least one pair of pins, and at least a part of the locking and operating means (10) are made on the rod (7).

IPC 8 full level  
**E05C 9/02** (2006.01); **E05B 15/16** (2006.01)

CPC (source: EP)  
**E05C 9/02** (2013.01); **E05B 15/1635** (2013.01)

Cited by  
ITBO20080663A1; US9151094B2; WO2010049750A1

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 1460216 A2 20040922; EP 1460216 A3 20060802; EP 1460216 B1 20090513**; AT E431481 T1 20090515; DE 602004021054 D1 20090625; ES 2326371 T3 20091008; IT BO20030118 A1 20040906

DOCDB simple family (application)  
**EP 04425120 A 20040226**; AT 04425120 T 20040226; DE 602004021054 T 20040226; ES 04425120 T 20040226; IT BO20030118 A 20030305