

Title (en)

MOVABLE BODY DRIVE UNIT AND AUTOMATIC DRAWER DEVICE USING THE SAME

Title (de)

BEWEGLICHE KÖRPERANTRIEBSEINHEIT UND DIESE VERWENDENDE AUTOMATISCHE SCHUBLADENVORRICHTUNG

Title (fr)

UNITE D'ENTRAINEMENT D'UN CORPS MOBILE ET DISPOSITIF DE TIROIR AUTOMATIQUE UTILISANT CELLE-CI

Publication

EP 1870000 A1 20071226 (EN)

Application

EP 06728716 A 20060307

Priority

- JP 2006304347 W 20060307
- JP 2005101396 A 20050331

Abstract (en)

Provided is an automatic drawer device in which advancement/retreating of a drawer (3) is immediately stopped when the drawer (3) comes into contact with an obstacle to thereby prevent damage of the obstacle and the drawer (3) itself and secure a sufficient level of safety for the user and the like. The automatic drawer device includes a fixed frame body (2) ; the drawer (3) capable of freely advancing and retreating with respect to the fixed frame body (2); and a movable body drive unit (10) causing the drawer (3) to advance and retreat with respect to the fixed frame body (2). The movable body drive unit (10) is equipped with: a conveyance roller (11) for causing the drawer (3) to move; a drive means (16) for rotating the conveyance roller (11); a control means (6) for generating a drive signal for the drive means (16) ; and obstruction detection means (5, 6) which makes a judgement as to whether there is any obstruction to the advancement/retreating of the drawer (3), and which, upon determining there is an obstruction, gives the control means (6) a command to stop the drive means (16).

IPC 8 full level

A47B 88/04 (2006.01); **E05F 15/14** (2006.01)

CPC (source: EP US)

A47B 88/457 (2016.12 - EP US); **E05F 15/635** (2015.01 - EP); **E05F 15/641** (2015.01 - EP US); **E05Y 2201/216** (2013.01 - EP); **E05Y 2201/246** (2013.01 - EP); **E05Y 2201/462** (2013.01 - EP); **E05Y 2201/674** (2013.01 - EP US); **E05Y 2900/20** (2013.01 - EP)

Cited by

EP2284464A3; AT526799A1; FR2972478A1; US12024935B2; EP3967957A4; EP2712996A3; WO2010089227A1; WO2021244994A1

Designated contracting state (EPC)

AT DE

DOCDB simple family (publication)

EP 1870000 A1 20071226; **EP 1870000 A4 20120606**; **EP 1870000 B1 20140101**; JP 5059606 B2 20121024; JP WO2006112189 A1 20081204; WO 2006112189 A1 20061026

DOCDB simple family (application)

EP 06728716 A 20060307; JP 2006304347 W 20060307; JP 2007521122 A 20060307