

Title (en)
Hydraulic hinge for a glass door

Title (de)
Hydraulisches Scharnier für eine Glastür

Title (fr)
Charnière hydraulique pour porte en verre

Publication
EP 2808475 A1 20141203 (EN)

Application
EP 13169431 A 20130528

Priority
EP 13169431 A 20130528

Abstract (en)
A hydraulic hinge for a glass door has a fixing plate (10), a rotating seat (20), a pivot (30) and a buffer module (40). The rotating seat (20) is combined with the fixing plate (10) by the pivot (30) and has a first oil passage (23) and a second oil passage (24). The buffer module (40) is mounted in the rotating seat (20) and has a valve (41) having a circular groove (48) selectively communicating with the second oil passage (24). A glass door 60 can be pivoted relative to the rotating seat (20). The valve (41) is structurally simple, thereby simplifying the manufacturing process. With the valve (41) and the second oil passage (24), the velocity of closing the glass door (60) gradually increases from low speed to high speed.

IPC 8 full level
E05F 3/12 (2006.01); **E05F 3/10** (2006.01)

CPC (source: EP)
E05F 3/104 (2013.01); **E05F 3/12** (2013.01); **E05Y 2900/132** (2013.01)

Citation (search report)

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- [Y] DE 202012011586 U1 20130408 - LEADO DOOR CONTROLS LTD [TW]
- [A] KR 20100033133 A 20100329 - WOO HEE BUM [KR]
- [A] US 2011197391 A1 20110818 - YU RICK [TW], et al

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CN113323527A; CN107178266A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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