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(54) **Sliding door system for glass doors**

(57) A roller unit (12) comprises a connector assembly secured to a structure or to a door. The connector assembly comprises a spindle (32). The roller assembly has a wheel (60) having a rolling-element bearing (61) mounted to the spindle (32), and an annular wheel body (62) mounted to the rolling-element bearing (61) for rotation about the spindle (32). The annular wheel body (62) has a pair of flanges (64,68) separated by a groove (63) on a circumferential surface of the annular wheel

body. The circumferential surface defines a shape corresponding to the shape of an edge portion of the door or structure engaged in the annular wheel body. The connector assembly is connected to one of the door and the structure, while the wheel receives an edge portion of the other of the door and the structure, whereby the roller unit (12) holds the door and structure face to face while allowing sliding movement of the door with respect to the structure by rotation of the wheel (60) about the spindle (32). A sliding door system is also described.

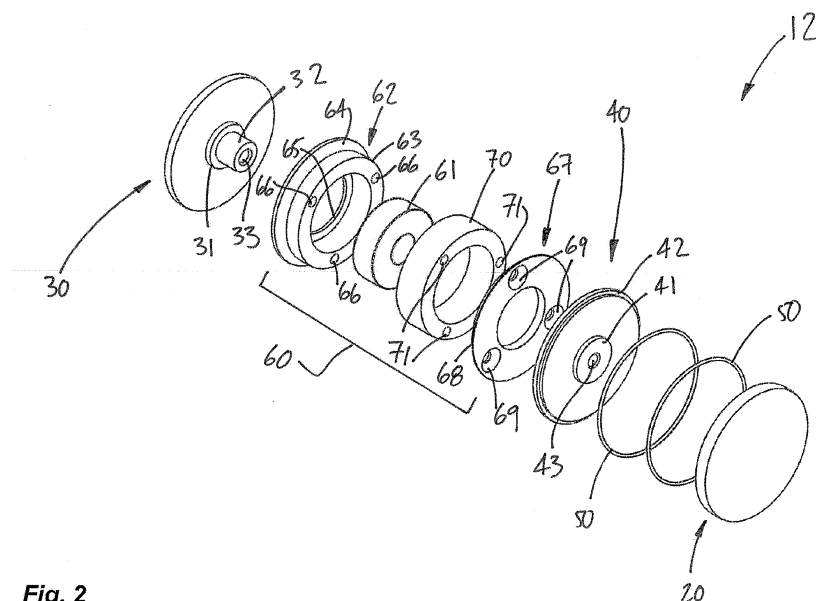


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 09 17 8409

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 December 2013	Examiner Wagner, Andrea
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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