

Title (en)  
A door or port hinge

Title (de)  
Tür-oder Torscharnier

Title (fr)  
Charnière de porte ou de portail

Publication  
**EP 0777027 A1 19970604 (EN)**

Application  
**EP 96203239 A 19961119**

Priority  
SE 9504264 A 19951129

Abstract (en)  
The present invention relates to a door or port hinge means (10) having a stationary part (12) which includes a sleeve (26), a moveable part (30) which includes a sleeve (36), and a rod (22) which functions to mutually connect the sleeves (26, 36) and which forms the rotational centre of said moveable part. The invention is characterized in that the end surface of each sleeve has disposed around its periphery two planar, essentially horizontal first surfaces (50); two cam surfaces (52) which adjoin the first surfaces (50) at a given angle thereto; two planar second surfaces (54) which adjoin the cam surfaces (52) and which are essentially parallel with the first surfaces (50); and two third surfaces (56) which are located between the first and second surfaces in adjoinment therewith and which extend perpendicular to the first surfaces (50); wherein the sleeve surfaces abut corresponding surfaces on the second sleeve in a closed non-raised position such that during a given part of the opening movement the respective cam surfaces (52) of the sleeves will slide on one another and therewith lift the port; and wherein the planar first surfaces (50) of said sleeves slide on one another during the remainder of said opening movement. <IMAGE>

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IPC 8 full level  
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CPC (source: EP)  
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Citation (applicant)  
• DE 2641684 A1 19780323 - WENDLER DETLEV  
• DE 2413117 A1 19751009 - DIETZEL BERTHOLD

Citation (search report)  
• [XY] DE 8536576 U1 19860313  
• [Y] FR 2313529 A1 19761231 - SCHUERMANN & CO HEINZ [DE]  
• [Y] DE 3638384 A1 19880519 - BESCHMANN HANS [DE]  
• [Y] DE 29509466 U1 19950824 - STEINBACH & VOLLMANN [DE]  
• [A] US 4697306 A 19871006 - RHODES BERNARD J [AU]  
• [A] US 1341690 A 19200601 - WERNER JOSEPH B

Cited by  
EP3034730A1; US7013531B2; EP2280142A3; CN112012622A; GB2369651A; FR2889236A1; ITBO20090174A1; EP1748137A3; EP2169168A3; US2021262672A1; US8944394B2; US11236536B1; US11661777B2; AT515252A2; AT515252B1; EP3789571A1

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