

Title (en)  
ARTICULATION

Publication  
**EP 0124838 A3 19850515 (DE)**

Application  
**EP 84104790 A 19840428**

Priority  
US 49169383 A 19830505

Abstract (en)  
[origin: US4501045A] A self-locking hinge is disclosed for pivotally attaching a door to a frame member. The hinge includes first and second hinge members which are pivotally joined together by a pin. A socket is formed in the first hinge member which is designed to receive a detent mechanism. The detent mechanism has at least one tooth formed on its lower surface which will engage a complimentary notch formed on the upper surface of the second hinge member upon rotation of the first hinge member relative to the second hinge member. The tooth and notch are so configured as to permit rotation of the first hinge member in one direction but will prevent its rotation in an opposite direction once the tooth has engaged the notch. A spring is positioned located within the socket of the first hinge member so as to bias the detent downward towards the second hinge member. The self-locking hinge is unique in that it permits the detent mechanism to be inserted into the socket at various angular positions so that the tooth is offset from the notch various degrees. This feature permits a door to be opened different amounts, depending upon its application, before the tooth engages the notch and forms a stop.

IPC 1-7  
**E05D 11/06**; **E05D 11/10**

IPC 8 full level  
**E05D 11/06** (2006.01); **E05D 11/10** (2006.01)

CPC (source: EP US)  
**E05D 11/06** (2013.01 - EP US); **E05D 11/1078** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US)

Citation (search report)

- [X] US 3460190 A 19690812 - MACDONALD ROOERT D
- [Y] DE 244525 C
- [Y] DE 624610 C 19360124 - WILLY STEPHAN
- [A] US 2362923 A 19441114 - PARDOE NORMAN H

Cited by  
GB2332925A; EP0445559A1; FR2579261A1; GB2283158A; GB2283158B; DE10156300A1; DE10156300B4; GB2263305A; GB2263305B; US2024263502A1

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**EP 0124838 A2 19841114**; **EP 0124838 A3 19850515**; **EP 0124838 B1 19870708**; AT E28229 T1 19870715; BR 8402073 A 19841211; DE 3464642 D1 19870813; DK 223684 A 19841106; DK 223684 D0 19840504; ES 288094 U 19851116; ES 288094 Y 19860616; JP S59206578 A 19841122; NO 841741 L 19841106; US 4501045 A 19850226; ZA 843362 B 19851224

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