

Title (en)  
OVERLOAD PROTECTION DEVICE

Publication  
**EP 0209482 A3 19890726 (DE)**

Application  
**EP 86730068 A 19860423**

Priority  
DE 3525666 A 19850718

Abstract (en)  
[origin: US4763768A] A bi-directionally effective overload protection device for a rotation machine part includes two coaxially arranged, mutually juxtaposed ring discs frictionally connected to a machine; a gear disc with outer gearing and inwardly directed flange means circumscribes the ring discs; a plurality of springs hold said gear disc normally in particular position in relation to the ring discs, permitting the gear disc to rotate relative to the ring discs upon occurrence of an overload in either directional rotation; a dual switching ring having an inner and an outer ring portion is connected to the second ring disc through resilient bar or leaf spring portions of the switching ring; actuator ramps on the outer and inner ring portions cooperate with axially extending cams on the gear disc so that either the inner or the outer ring is axially shifted on overload in one or the other direction; switches are arranged in relation to the inner and outer ring portion for being actuated by the particular one that is axially shifted on occurrence of overload.

IPC 1-7  
**H01H 3/16**

IPC 8 full level  
**F16H 35/10** (2006.01); **F16P 7/00** (2006.01); **H01H 35/00** (2006.01)

CPC (source: EP US)  
**H01H 35/006** (2013.01 - EP US); **Y10T 74/19847** (2015.01 - EP US)

Citation (search report)  
• [A] DE 2446367 A1 19760415 - SIEMENS AG  
• [A] GB 2012486 A 19790725 - LUCAS INDUSTRIES LTD  
• [A] US 3323328 A 19670606 - MONTGOMERY BYRON D  
• [A] US 3435695 A 19690401 - RIVERS CHARLES F  
• [AD] DE 2714452 A1 19771027 - HITACHI LTD  
• [A] US 2825776 A 19580304 - CURTIS GUY A

Designated contracting state (EPC)  
BE FR GB IT NL SE

DOCDB simple family (publication)  
**DE 3525666 C1 19861127**; DK 339886 A 19870119; DK 339886 D0 19860717; EP 0209482 A2 19870121; EP 0209482 A3 19890726; JP S6224069 A 19870202; NO 861952 L 19870119; US 4763768 A 19880816

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