

Title (en)  
HYDROPNEUMATIC PISTON ACCUMULATOR PROVIDED WITH A GAS SHORTAGE DETECTOR

Publication  
**EP 0003925 B1 19810107 (FR)**

Application  
**EP 79400082 A 19790207**

Priority  
FR 7805511 A 19780227

Abstract (en)  
[origin: US4243856A] In the gas shortage detection device of a piston-type hydropneumatic accumulator, a control rod slidably mounted in the cylinder head on the gas side is displaced under the action of the thrust exerted by the piston when this latter comes closer to the cylinder head than a predetermined distance. A flexible motion-reversal coupling element such as an inextensible cord which works in traction and has a predetermined dead range of travel is placed between the piston and the sliding rod. Correct performance of the detection device can thus be checked by partial draining of the oil compartment, the detection device being triggered into operation when the piston comes close to the bottom end of the cylinder.

IPC 1-7  
**F15B 1/053**; H01H 3/16

IPC 8 full level  
**F15B 1/08** (2006.01); **F15B 1/24** (2006.01)

CPC (source: EP US)  
**F15B 1/08** (2013.01 - EP US); **F15B 1/24** (2013.01 - EP US); **F15B 2201/205** (2013.01 - EP US); **F15B 2201/312** (2013.01 - EP US); **F15B 2201/41** (2013.01 - EP US); **F15B 2201/515** (2013.01 - EP US)

Cited by  
US5024250A; US4644976A; DE3334813A1

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

DOCDB simple family (publication)  
**EP 0003925 A1 19790905**; **EP 0003925 B1 19810107**; AT 376280 B 19841025; AT A142179 A 19840315; BR 7901156 A 19791009; CA 1094921 A 19810203; DE 2960110 D1 19810226; FR 2418356 A1 19790921; FR 2418356 B1 19801031; HU 182878 B 19840328; IN 151113 B 19830226; JP S54123725 A 19790926; JP S5911761 B2 19840317; SU 953993 A3 19820823; US 4243856 A 19810106

DOCDB simple family (application)  
**EP 79400082 A 19790207**; AT 142179 A 19790223; BR 7901156 A 19790222; CA 321929 A 19790220; DE 2960110 T 19790207; FR 7805511 A 19780227; HU GA001274 A 19790226; IN 171CA1979 A 19790224; JP 2438179 A 19790227; SU 2732801 A 19790226; US 1244779 A 19790215