

Title (en)
PRESTRESSED ACCUMULATOR

Publication
EP 0035427 A3 19811007 (FR)

Application
EP 81400246 A 19810218

Priority
• FR 8004313 A 19800227
• FR 8009781 A 19800430

Abstract (en)
[origin: ES8201694A1] A hydraulic accumulator comprises two-halves shells, the diaphragm therebetween defining two cavities. One cavity contains pressurized gas and the cavity receives hydraulic fluid under pressure. The two-half shells are held together by a mechanical element, such as a belt which has been previously prestressed to a tension selected according to the maximum pressure to which the accumulator will be subjected. The use of the prestressed mechanical element changes the dynamic stresses ordinarily found in a hydraulic accumulator to static stresses, thus minimizing the occurrence of cracks and failure of the device.

IPC 1-7
F15B 1/047

IPC 8 full level
F15B 1/10 (2006.01); **F15B 1/12** (2006.01)

CPC (source: EP US)
F15B 1/106 (2013.01 - EP US); **F15B 1/12** (2013.01 - EP US); **F15B 2201/205** (2013.01 - EP US); **F15B 2201/3151** (2013.01 - EP US); **F15B 2201/3156** (2013.01 - EP US); **F15B 2201/411** (2013.01 - EP US); **F15B 2201/4155** (2013.01 - EP US); **F15B 2201/435** (2013.01 - EP US); **F15B 2201/60** (2013.01 - EP US); **F15B 2201/605** (2013.01 - EP US); **Y10T 29/49394** (2015.01 - EP US); **Y10T 29/49863** (2015.01 - EP US); **Y10T 403/48** (2015.01 - EP US); **Y10T 403/57** (2015.01 - EP US)

Citation (search report)
• DE 2532807 B1 19761104
• DE 2755457 A1 19790628 - BOSCH GMBH ROBERT
• EP 0007970 A1 19800220 - TEVES GMBH ALFRED [DE]
• FR 2319036 A1 19770218 - LANGEN & CO [DE]
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• DE 2155255 A1 19730510 - LANGEN & CO

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FR2938308A1; EP0060181B1

Designated contracting state (EPC)
AT BE CH DE IT SE

DOCDB simple family (publication)
EP 0035427 A2 19810909; EP 0035427 A3 19811007; EP 0035427 B1 19841024; AT E10024 T1 19841115; CA 1153281 A 19830906; DE 3166761 D1 19841129; ES 499284 A0 19820101; ES 8201694 A1 19820101; US 4492013 A 19850108

DOCDB simple family (application)
EP 81400246 A 19810218; AT 81400246 T 19810218; CA 371511 A 19810223; DE 3166761 T 19810218; ES 499284 A 19810210; US 23619581 A 19810220