

Title (en)

Shock absorbing device for hydraulic cylinder.

Title (de)

Dämpfungsvorrichtung für einen hydraulischen Zylinder.

Title (fr)

Dispositif amortisseur pour un cylindre hydraulique.

Publication

**EP 0068495 A1 19830105 (EN)**

Application

**EP 82105779 A 19820629**

Priority

- JP 3341682 U 19820310
- JP 9679081 U 19810630
- JP 15573681 U 19811020
- JP 18784181 U 19811216

Abstract (en)

A shock absorbing device for a hydraulic cylinder including a shock absorbing hole (4) formed in an end wall (2) of cylinder, a passageway (6) having a port (5) opening in the shock absorbing hole at its inner peripheral surface (5A) and a shock absorbing member (13) attached to the piston (11) and aligned with the shock absorbing hole so that it enters the hole during shock absorbing stroke. The shock absorbing member (13) throttles the flow of fluid in the hole (4) to perform a first stage shock absorption and then throttle the flow of fluid through the port (5) to perform a second stage shock absorption.

IPC 1-7

**F15B 15/22**

IPC 8 full level

**F15B 15/22** (2006.01)

CPC (source: EP)

**F15B 15/222** (2013.01)

Citation (search report)

- [X] DE 2603041 A1 19770804 - LICENTIA GMBH
- [A] US 4064788 A 19771227 - RICH BELDON LEE, et al
- [A] US 3323422 A 19670606 - GLENN FREESE EVANS

Cited by

EP1677010A1; EP0734495A4; US4807514A; CN112780633A; EP0751315A1

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**EP 0068495 A1 19830105; EP 0068495 B1 19860312; DE 3269801 D1 19860417**

DOCDB simple family (application)

**EP 82105779 A 19820629; DE 3269801 T 19820629**