

Title (en)
HIGH AND LOW PRESSURE, QUICK-DISCONNECT COUPLING.

Title (de)
SCHNELLKUPPLUNG FÜR HOCH- UND NIEDERDRUCK.

Title (fr)
RACCORD RAPIDE POUR HAUTE ET BASSE PRESSION.

Publication
EP 0205427 A4 19870413 (EN)

Application
EP 85900577 A 19841231

Priority
US 8402142 W 19841231

Abstract (en)
[origin: WO8604130A1] A coupling device, which can be connected or disconnected quickly, capable of operation in both high and low pressure environments, and in applications where shock and extreme vibrations may be present. Interconnection is accomplished via complementarily-threaded male and female (100) members. These members each contain an inner (21) (121) and outer valve (49) (149) assembly, arranged in such a manner that the inner valves (21) (121) open prior to the opening of the outer valves (49) (149), thus permitting equalization of pressure (termed "venting") to develop between the male and female (100) sides of the coupling before fluid flow is initiated. Ease of manufacture is facilitated through modularized valving and spring biased (91) (191) structure, while the device's symmetrical design allows for complete reversibility of inputs and outputs. The instant coupling is intended for use with hydraulic and/or other types of fluid flow lines, particularly where said lines may be under pressure.

IPC 1-7
F16L 37/28

IPC 8 full level
F16L 29/04 (2006.01)

CPC (source: EP)
F16L 29/04 (2013.01)

Citation (search report)

- [YD] US 2931668 A 19600405 - BAILEY RICHARD A
- [Y] US 1580618 A 19260413 - LOVEQUIST GEORGE W, et al
- See references of WO 8604130A1

Designated contracting state (EPC)
DE FR GB NL SE

DOCDB simple family (publication)
WO 8604130 A1 19860717; EP 0205427 A1 19861230; EP 0205427 A4 19870413

DOCDB simple family (application)
US 8402142 W 19841231; EP 85900577 A 19841231