

Title (en)

Multiple chamber expansion device for a cooling/heating circuit of a vehicle

Title (de)

Mehrkammerexpansionseinrichtung für einen Kühlungs-Heizungskreis eines Kraftwagens

Title (fr)

Dispositif d'expansion à chambres multiples pour circuit de refroidissement/chauffage de véhicule

Publication

**EP 0791733 B1 20021113 (FR)**

Application

**EP 97102247 A 19970212**

Priority

FR 9602067 A 19960220

Abstract (en)

[origin: EP0791733A1] Three expansion chambers (10,11,12) are horizontally aligned in a long rigid casing (1). The casing is formed from two hollow moulded parts welded at their peripheral edges (8) in a vertical joint plane. These edges are thickened and hollowed by a groove (20) extending along their periphery. This groove define a conduits (31) connecting the first and second chambers through a pressure limiting valve (36), and discharging in the upper part of the first chamber. The pressure limiting valve opens to allow discharge of liquid or gas from the second chamber when its pressure attains a predetermined value. The second and third chambers are connected by a second conduit (32,33) through the first valve. A second pressure limiting valve (44) carried by this conduit enables fluid from the third chamber to discharge into the second chamber.

IPC 1-7

**F01P 11/02**

IPC 8 full level

**F01P 11/02** (2006.01)

CPC (source: EP KR US)

**F01P 7/026** (2013.01 - KR); **F01P 7/16** (2013.01 - KR); **F01P 11/029** (2013.01 - EP US); **F01P 2025/04** (2013.01 - KR); **F28F 2255/14** (2013.01 - KR); **F28F 2275/06** (2013.01 - KR)

Cited by

CN102635432A

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**EP 0791733 A1 19970827**; **EP 0791733 B1 20021113**; BR 9701014 A 19981103; DE 69716980 D1 20021219; DE 69716980 T2 20030717; FR 2745069 A1 19970822; FR 2745069 B1 19980410; KR 970062274 A 19970912; US 5829268 A 19981103

DOCDB simple family (application)

**EP 97102247 A 19970212**; BR 9701014 A 19970219; DE 69716980 T 19970212; FR 9602067 A 19960220; KR 19970005092 A 19970220; US 80237597 A 19970219