

Title (en)
Multi-layer coolant reservoir

Title (de)
Mehrschicht-Kühlbehälter

Title (fr)
Réservoir de refroidissant multicouche

Publication
EP 2312138 A3 20130116 (EN)

Application
EP 10176989 A 20100916

Priority
US 24288309 P 20090916

Abstract (en)
[origin: US2011062163A1] In various aspects of the invention a multi-layer pressurizable coolant reservoir includes an inner shell member shaped and configured to define at least one liquid storage chamber. An outer shell member is layered onto the inner shell member. The outer shell member is particularly adapted to provide structural stability and resist pressure deformation of the inner shell. The outer shell is isolated from the coolant by the inner layer. The material of the inner shell is selected for compatibility with the coolant.

IPC 8 full level
F01P 11/02 (2006.01)

CPC (source: EP US)
F01P 11/029 (2013.01 - EP US)

Citation (search report)

- [XY] US 4585052 A 19860429 - KANEKO TETSUO [JP], et al
- [Y] US 3874544 A 19750401 - HARMON EMERSON R
- [A] DE 10217619 A1 20030731 - GEIGER TECHNIK GMBH [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
US 2011062163 A1 20110317; EP 2312138 A2 20110420; EP 2312138 A3 20130116

DOCDB simple family (application)
US 88221010 A 20100915; EP 10176989 A 20100916