

Title (en)
FLUID COOLING DEVICE

Title (de)
FLUIDKÜHLVORRICHTUNG

Title (fr)
DISPOSITIF DE REFROIDISSEMENT DE FLUIDE

Publication
EP 2553276 A1 20130206 (DE)

Application
EP 11711450 A 20110322

Priority
• DE 102010012952 A 20100326
• EP 2011001399 W 20110322

Abstract (en)
[origin: WO2011116924A1] The invention relates to a fluid cooling device (1) as a structural unit having a drive motor (2) which drives a rotatable fan impeller (3), and having a storage tank (4) which has a filling opening (6) as well as a fill-level indicator (7) and from which at least one fluid can be conveyed into a hydraulic working circuit, wherein in the hydraulic working circuit the fluid is heated and is cooled via a heat exchanger (5) of the structural unit, and preferably returned into the storage tank (4). The invention is characterised in that the structural unit is designed as a turning assembly in which the filling opening (6) for fluid and the fill-level indicator (7) are disposed on the storage tank (4) in such a way that they can be used and read in the case of a first, preferably vertical installation direction (X, Y) of the structural unit, and in the case of a second installation direction (Y, X) which is inclined with respect to the first installation direction (X, Y), preferably at right angles thereto.

IPC 8 full level
F15B 1/26 (2006.01); **F04B 23/02** (2006.01); **F15B 21/0423** (2019.01)

CPC (source: EP US)
F04B 23/02 (2013.01 - EP US); **F15B 1/26** (2013.01 - EP US); **F15B 21/0423** (2018.12 - EP US); **B65D 25/56** (2013.01 - US); **Y10T 137/6525** (2015.04 - EP US)

Citation (search report)
See references of WO 2011116924A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102010012952 A1 20110929; EP 2553276 A1 20130206; EP 2553276 B1 20190807; US 2013081387 A1 20130404; US 9222492 B2 20151229; WO 2011116924 A1 20110929

DOCDB simple family (application)
DE 102010012952 A 20100326; EP 11711450 A 20110322; EP 2011001399 W 20110322; US 201113261438 A 20110322