

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 1613916 B1 20101117 (DE)

Application
EP 04722294 A 20040322

Priority
• EP 2004003016 W 20040322
• DE 10315371 A 20030403

Abstract (en)
[origin: US2006266509A1] The invention relates to a heat exchanger, especially a gas cooler for CO₂, embodied as a cooling agent. The heat exchanger comprises at least one two-part collector unit made of a base and a cover. Said collector unit consists of flat pipes and at least two longitudinal channels with an essentially circular cross-section. The ends of the flat pipes and the base comprise openings for receiving the ends of the pipes. The base, cover and flat pipes are soldered together.

IPC 8 full level
F28F 9/02 (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP US)
F28D 1/05366 (2013.01 - EP US); **F28F 9/0214** (2013.01 - EP US); **F28F 9/0224** (2013.01 - EP US); **F28D 2021/0073** (2013.01 - EP US); **F28F 2275/04** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006266509 A1 20061130; US 7578340 B2 20090825; AT E488742 T1 20101215; BR PI0408578 A 20060321; CN 1768244 A 20060503; DE 10315371 A1 20041014; DE 502004011898 D1 20101230; EP 1613916 A2 20060111; EP 1613916 B1 20101117; JP 2006522306 A 20060928; WO 2004088234 A2 20041014; WO 2004088234 A3 20050106

DOCDB simple family (application)
US 55204105 A 20051003; AT 04722294 T 20040322; BR PI0408578 A 20040322; CN 200480009155 A 20040322; DE 10315371 A 20030403; DE 502004011898 T 20040322; EP 04722294 A 20040322; EP 2004003016 W 20040322; JP 2006504802 A 20040322