

Title (en)
HEAT EXCHANGER, MORE PARTICULARLY COOLER, E.Q. OIL COOLER

Publication
EP 0564761 A3 19931027 (DE)

Application
EP 93100595 A 19930116

Priority
DE 4212070 A 19920410

Abstract (en)
[origin: EP0564761A2] A heat exchanger (10) more particularly a cooler, has two transversely spaced manifolds (13, 14) and flat tubes (17) which extend therebetween and whose opposite ends are connected to the manifolds (13, 14). Radiating elements (24) are located in interspaces between the flat tubes (17). The interior of the flat tubes (17) is connected to the interior (19, 20) of each manifold (13, 14). The manifolds (13, 14) are sealed by sealing elements (21, 22) as required in the region of at least one end. Each sealing element (21, 22) is formed from a tongue-like partition (23), in particular a plate, which is inserted into the manifold (13, 14) through a slot (25, 26) transverse to the longitudinal extent thereof, and fastened therein. This end seal is particularly simple. <IMAGE>

IPC 1-7
F28F 9/02; **F28D 1/053**; **F28F 9/18**

IPC 8 full level
F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28F 9/18** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)
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Citation (search report)
• [AD] WO 8401208 A1 19840329 - KNOWLTON BRYCE H, et al
• [AD] EP 0360362 A1 19900328 - SHOWA ALUMINIUM CO LTD [JP]
• [A] US 5052478 A 19911001 - NAKAJIMA ICHIO [JP], et al

Cited by
DE102010028867A1; US2018038661A1; DE102005048160A1; EP0745821A1; EP1182334A3; EP1182414A3; US6192976B1; US6220340B1; DE19524607A1; DE19524607C2; DE4441503A1; DE4441503C2; DE4414979A1; WO9960322A1; WO0111294A1

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