

Title (en)
Heat exchanger, especially for a boiler

Title (de)
Wärmeübertrager, insbesondere für einen Heizkessel

Title (fr)
Echangeur de chaleur, en particulier pour chaudière

Publication
EP 0745813 A3 19971229 (DE)

Application
EP 96108743 A 19960531

Priority
DE 19519813 A 19950531

Abstract (en)
[origin: EP0745813A2] A gap defined by the pipe allows the heat exchanger medium to flow through radially outwards from inside. The gap converges in the through-flow direction (13) of the exothermal medium. The pipe is helical with the gap running between the coils (11,12) of the cylindrical spiral. The gap converges so that the speed and or heat exchange and or pressure reduction in the exothermal medium in the through-flow direction is constant per unit of length. The surfaces (9,10) on each side of the gap are curved with a cross-section in the form of a convex parabola whose curvature decreases towards the end (15) of the gap. At the start of the gap (14), the pipe has rounded pitch edges (16). The outward and or inward pointing surface (17,18) of the pipe are flat.

IPC 1-7
F24H 1/43

IPC 8 full level
F24H 1/43 (2006.01); **F28D 7/02** (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP)
F24H 1/43 (2013.01); **F28D 7/024** (2013.01); **F28F 1/02** (2013.01)

Citation (search report)
• [X] WO 8201582 A1 19820513 - SDECC [FR], et al
• [A] EP 0031571 A1 19810708 - BRAUKMANN KESSEL GMBH [DE]
• [AD] WO 9416272 A1 19940721 - LE MER JOSEPH [FR]

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DE10002894B4; RU2760544C1; EP1624270A1; US2018172313A1; CN108291739A; RU2685759C1; EP2154444A3; JP2017510788A; WO2010018187A3; WO2005028966A1; US11041659B2; US9909779B2; WO2016207923A1; EP1965146A1; WO2015140664A1; EP3139106A1; US10900691B2; US11761678B2

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