

Title (en)

Heat exchanger with a bypass tube

Title (de)

Wärmetauscher mit einem Bypassrohr

Title (fr)

Echangeur de chaleur avec un tuyau bypass

Publication

EP 1498678 B1 20060906 (DE)

Application

EP 03015944 A 20030712

Priority

EP 03015944 A 20030712

Abstract (en)

[origin: EP1498678A1] A heat exchanger has a by-pass pipe (2) to cool hot gases emanating from a petrochemical plant by application of water to the pipe. The pipe has an inlet chamber (5) and an outlet chamber (6) and a by-pass pipe that is roughly parallel to and passes through the centre of the heat exchanger. The by-pass pipe has a throttle coupled to a pushrod (14). The by-pass pipe is co-located with a pipe (12) with a twin-walled (15) sliding piston (13) valve. The valve twin walls have cooling channels.

IPC 8 full level

F28D 7/16 (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)

F28D 7/163 (2013.01); **F28F 27/02** (2013.01); **F28D 2021/0075** (2013.01); **F28F 2250/06** (2013.01)

Cited by

JP2013539006A; DE102015013517A1; EP4368933A1; EP2312252A1; CN103913078A; EP2562506A1; GB2516122B; JP2017078567A; DE102005057674A1; DE102005057674B4; DE102008051268A1; US7412945B2; EP3407001A1; WO2018215102A1; US11073347B2; EP3159646A1; US11226159B2; WO2012041344A1; US10072223B2; US10190065B2; US9278814B2; WO2016135299A1; US9550630B2; US9592963B2; US10071863B2; US10782073B2; EP3262363B1; EP3159646B1; EP3159646B2

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