

Title (en)
Heat recovery device

Title (de)
Wärmerückgewinnungsvorrichtung

Title (fr)
Dispositif de récupération de chaleur

Publication
EP 2189745 A1 20100526 (EN)

Application
EP 09176128 A 20091116

Priority
IT TV20080151 A 20081124

Abstract (en)
A heat recovery device (1), particularly for reducing energy consumption in heating sanitary water for residential use or for industrial use by reducing the temperature of the combustion gases and of the particles dispersed by stacks of heating boilers. The device consists of a tubular element (2), which has an inlet (5) for the water drawn from the aqueduct, which flows along a coil of tubes (4) up to the exit (11) toward the heating boiler. The tubular element (2) also has an opening (15) for the inflow of the combustion gases that arrive from the heating boiler and exit through a second opening (24) after flowing around the coil that contains the water drawn from the aqueduct. The device thus allows savings in heating water for domestic and industrial uses and also allows a reduction in the emission of fine particles.

IPC 8 full level
F28D 21/00 (2006.01); **F28D 7/02** (2006.01)

CPC (source: EP US)
F28D 7/024 (2013.01 - EP US); **F28D 21/0007** (2013.01 - EP US); **F28F 2280/02** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
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EP 09176128 A 20091116; IT TV20080151 A 20081124; US 59127409 A 20091116