

Title (en)
HEAT RECOVERY SYSTEM.

Title (de)
SYSTEM ZUR RÜCKGEWINNUNG VON WÄRME.

Title (fr)
SYSTEME DE RECUPERATION DE CHALEUR.

Publication
EP 0035994 A4 19820712 (EN)

Application
EP 80901047 A 19810323

Priority
US 7402079 A 19790910

Abstract (en)
[origin: WO8100760A1] Apparatus for heat recovery from stacks and chimneys, using a heat exchanger scroll (2) mounted at the apex of such stacks, which consists of paired plates, spaced by deformed portions (21, 22) to define channels for flow of a liquid to be heated. A jacket (3) surrounds the scroll (2) is closed by a dome (5) having a filler cap (6). The scroll (2) is connected to the dome (5) by piping and a dome outlet (8) connected to a pump which circulates the heated water to a heating system by supply lines (11) or to other areas returning the liquid to the scroll (2) by return line (12). Sensible heat as well as latent heat of moisture in the fuels together with vapor produced as a combustion product can be scrubbed out. The use is to effect economies and to reduce environmental contamination wherever fuels are fired.

IPC 1-7
F28D 7/10

IPC 8 full level
F28D 9/04 (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)
F28D 9/04 (2013.01); **F28D 21/0007** (2013.01)

Citation (search report)

- DE 2901690 B1 19791025 - OTTO GEB KG
- US 4066210 A 19780103 - PEMBERTON ALONZA R, et al
- DE 2935543 A1 19810319 - POMPLUN DIETER, et al
- US 3124197 A 19640310
- FR 2344804 A1 19771014 - FIMEC [FR]
- DE 2733590 A1 19790201 - BALCKE DUERR AG
- DE 1913226 B1 19700827 - KRUPP GMBH

Cited by
US2015226490A1; US9696093B2

Designated contracting state (EPC)
DE FR GB NL SE

DOCDB simple family (publication)
WO 8100760 A1 19810319; DE 3067413 D1 19840517; EP 0035994 A1 19810923; EP 0035994 A4 19820712; EP 0035994 B1 19840411

DOCDB simple family (application)
US 8000443 W 19800418; DE 3067413 T 19800418; EP 80901047 A 19810323