

Title (en)
Kitchen hood recovering a quantity of heat

Title (de)
Eine bestimmte Menge Wärme wiederverwendende Küchenabzugshaube

Title (fr)
Hotte de cuisine récupérant une quantité de chaleur

Publication
EP 2110609 A2 20091021 (EN)

Application
EP 09004556 A 20090330

Priority
IT MI20080661 A 20080414

Abstract (en)
A kitchen hood (1) for recovering a heat quantity contained in a gas mixture, the hood (1) being provided with a housing (1a) which comprises a recovery heat exchanger (4) for subtracting a first heat quantity from said gas mixture (11) withdrawn from above the cooking hob, said recovery heat exchanger (4) being connected to compression means (6). These compression means (6) are connected to an internal heat exchanger (2) for exchanging a second heat quantity, proportional to that recovered in said recovery heat exchanger (4), against a gas mixture (13) originating from the internal environment in which said hood (1) is located, said internal heat exchanger (2) being connected to said recovery heat exchanger (4) via a throttling device (4a). A vector fluid flows through said heat exchangers (2, 4), through said throttling device (4a) and through said compression means (6) to perform a thermodynamic cycle with compression of the saturated vapours of the vector fluid.

IPC 8 full level
F24C 15/20 (2006.01)

CPC (source: EP)
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Cited by
CN109210585A; ITAN20120110A1; WO2015136032A1

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