

## Title (en)

Pollutant removing device and oblique single air curtain range hood using the device

## Title (de)

Schadstoffentfernungsvorrichtung und Schrägvorhangsbereichskappe mit der Vorrichtung

## Title (fr)

Dispositif d'élimination de polluants et hotte de cuisine à rideau d'air unique oblique utilisant le dispositif

## Publication

**EP 2175204 A1 20100414 (EN)**

## Application

**EP 08166293 A 20081009**

## Priority

EP 08166293 A 20081009

## Abstract (en)

The present invention relates to a pollutant removing device and an oblique single air curtain range hood using the device. The rear side of the range hood is adjacent to a wall and the range hood includes an air blow device and a suction device. The air blow device has an elongated air blow slot that is provided in front of a counter top and through which air is blown upward. The suction device is located above the counter top and includes an elongated suction opening that is connected with a suction machine to produce upward suction force. The elongated suction opening is parallel to the elongated air blow slot in a way that the elongated suction opening is above and spaced from the elongated air blow slot toward the wall. By means of the operation of the suction machine, an oblique air curtain that is nearly two-dimensional is formed between the elongated suction opening and the elongated air blow slot. The gas or harmful gas located between the oblique air curtain and the wall can be sucked via the elongated suction opening. Consequently, the escape of pollutants is decreased and the ability against interference of sucking harmful gas resulted from ambient air turbulence can be enhanced.

## IPC 8 full level

**F24C 15/20** (2006.01)

## CPC (source: EP)

**F24C 15/2028** (2013.01); **F24C 15/2035** (2013.01)

## Citation (search report)

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