

Title (en)
Reverse oblique air curtain exhaust cabinet

Title (de)
Luftabzug mit rückwärts gerichtetem Luftschleier

Title (fr)
Armoire d'échappement de rideau d'air oblique inversé

Publication
EP 2327484 A1 20110601 (EN)

Application
EP 09177202 A 20091126

Priority
EP 09177202 A 20091126

Abstract (en)
A reverse oblique air curtain exhaust cabinet (2) comprises a cabinet that has a bottom plate (23) and an elongate air blow slot (32) is provided in front of the bottom plate (23). Through the elongate air blow slot (32), air is blown upward at an oblique angle toward the rear plate (27) of the cabinet. An air-extraction hood (4) is provided in a space defined above the bottom plate in a way of being vertically movable relative to the cabinet (2). The air-extraction hood (4) has an elongate air-extraction part (41) that is parallel to the elongate air blow slot in a way that the elongate air-extraction part (41) is above and spaced from the elongate air blow slot (32) toward the rear plate (27) of the cabinet. Thereby, when air is blown from the elongate air blow slot (32) and drawn into the elongate air-extraction part (41), an oblique air curtain (5) that flows upward is formed to prevent from the leakage of pollutants, to enhance the ability against the ambient air turbulence, and to reduce the dynamic leakage amount. Besides, by providing the air-extraction hood (4) that is vertically movable, the air-extraction opening can be moved to be close to pollutant source. Therefore, the pollutants between the oblique air curtain (5) and rear plate (27) and left (24) and right lateral plates (25) can be removed in a more energy-saving way.

IPC 8 full level
B08B 15/02 (2006.01)

CPC (source: EP)
B08B 15/023 (2013.01); **B08B 2215/003** (2013.01)

Citation (applicant)
• US 7318771 B2 20080115 - HUANG RONG FUNG [TW], et al
• FR 2684318 A1 19930604 - AIRT 2000 [FR]

Citation (search report)
• [Y] FR 2684318 A1 19930604 - AIRT 2000 [FR]
• [Y] EP 0867665 A2 19980930 - GWE GES FUER WASSERAUFBEREITUN [DE]
• [Y] DE 19918445 A1 20001102 - POETTER KLIMA GMBH [DE]
• [Y] JP S6030916 A 19850216 - TADA KK
• [Y] FR 2221914 A5 19741011 - FAIVRE ROBERT [FR]
• [Y] WO 9822755 A1 19980528 - KIM BYONG DUK [KR]
• [A] US 5167572 A 19921201 - ETKIN BERNARD [CA]

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