

Title (en)
FAN COIL UNIT WITH SILENCER

Title (de)
LÜFTERSPULENEINHEIT MIT SCHALLDÄMPFER

Title (fr)
BOBINE DE VENTILATEUR AVEC SILENCIEUX

Publication
EP 3907407 A1 20211110 (EN)

Application
EP 20173180 A 20200506

Priority
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Abstract (en)
A fan coil unit (300; 700; 800) for a heating, ventilation, and air conditioning (HVAC) system, the fan coil unit (300; 700; 800) comprising: a cabinet (202) having an inlet (208) and an outlet (210), the cabinet housing: a heat exchanger assembly (206), a fan assembly (204), a separator (220) extending across the fan assembly such that the cabinet is divided into an inlet portion (222) and an outlet portion (224), with the fan assembly being for generating a pressure difference between the inlet portion and the outlet portion, and a silencer (350; 750; 850a, 850b) configured to reduce noise generated in the fan coil unit (300; 700; 800) during use of the fan assembly (206) to move air between the inlet (208) and the outlet (210) of the cabinet (202), the silencer comprising: one or more cells (360a, 360b, 360c; 400a; 400b; 400c; 400d; 760a, 760b), wherein each cell comprises an end wall (354; 754), and a perforated wall (352; 752) spaced apart from the end wall.

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Citation (applicant)
• WO 2019171096 A1 20190912 - CARRIER CORP [US], et al
• WO 2017171096 A1 20171005 - SUMITOMO OSAKA CEMENT CO LTD [JP]

Citation (search report)
• [X] JP H0571752 A 19930323 - SHARP KK
• [X] JP S63282449 A 19881118 - HITACHI LTD, et al
• [I] JP H04309738 A 19921102 - MITSUBISHI ELECTRIC CORP
• [I] JP 2010145048 A 20100701 - MITSUBISHI ELECTRIC CORP
• [A] EP 1980755 A2 20081015 - KOBE STEEL LTD [JP]

Designated contracting state (EPC)
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