

Title (en)
Method and system for maintenance of an air-condition unit

Title (de)
Verfahren und System zur Wartung einer Klimaanlageeinheit

Title (fr)
Procédé et système de maintenance d'une unité de climatisation

Publication
EP 2253391 A1 20101124 (EN)

Application
EP 09168439 A 20090823

Priority
US 9173908 P 20080826

Abstract (en)
It is provided a system for cleaning a blower (11) and an air inlet filter (16) of an air condition unit (3) using condensed water. The system includes a reservoir (1) for condensed water, a first sub-system for facilitating flowing pressurized liquid in a duct (4) having spraying outlets (6), and a second sub-system for removal of sprayed liquid out of the air condition unit. The cleaning liquid includes condensed water and a cleaning additive. The air inlet filter may rotate on a pair of pulleys (17a, 17b), and the filter is exposed to the sprayed liquid by rotating a pulley while spraying. The system includes barriers (8) disposable in a separating position between the cleaned parts and other objects. The system also includes a manipulating handle (45) or an electric motor (7), for placing the barrier. Electrical circuitry (47) may automatically initiate cleaning the parts on turning-of the air condition unit. The system include a chamber (10) for a cleaning additive and a mixing mechanism for mixing the cleaning additive with the condensed water. The sub-system for removal of sprayed liquid out of the air condition unit includes a drain tray (12), a used water chamber (2) and a drain pipe (48).

IPC 8 full level
B08B 3/00 (2006.01); **B08B 3/02** (2006.01)

CPC (source: EP US)
B08B 3/02 (2013.01 - EP US); **F24F 8/90** (2021.01 - EP); **F24F 13/222** (2013.01 - EP US); **F28G 9/00** (2013.01 - EP US); **F24F 8/90** (2021.01 - US); **F24F 2221/225** (2013.01 - EP US)

Citation (applicant)
• US 6318108 B1 20011120 - HOLSTEIN GEORGE L [US], et al
• FR 2543363 A1 19840928 - EFCIS [FR]
• GB 2130677 A 19840606 - TEXTIMA VEB K
• GB 2249827 A 19920520 - H & M DISINFECTION SYST [GB], et al

Citation (search report)
• [XY] US 6318108 B1 20011120 - HOLSTEIN GEORGE L [US], et al
• [XY] FR 2534363 A1 19840413 - TEXTIMA VEB K [DD]
• [A] GB 2249827 A 19920520 - H & M DISINFECTION SYST [GB], et al
• [A] US 2007125520 A1 20070607 - NUTSOS MIKAEL [SE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
US 2010050664 A1 20100304; CN 101837353 A 20100922; EP 2253391 A1 20101124; IL 200511 A0 20100429

DOCDB simple family (application)
US 54669309 A 20090825; CN 200910166364 A 20090826; EP 09168439 A 20090823; IL 20051109 A 20090820