

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  
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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]

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