

Title (en)
CLIMATE CONTROL APPARATUS AND METHOD OF MANUFACTURE

Title (de)
KLIMAREGELVORRICHTUNG UND HERSTELLUNGSVERFAHREN

Title (fr)
APPAREIL DE RÉGULATION DE CLIMATISATION ET PROCÉDÉ DE FABRICATION

Publication
EP 4162210 A2 20230412 (EN)

Application
EP 21737735 A 20210607

Priority
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• GB 2021051411 W 20210607

Abstract (en)
[origin: GB2595739A] An apparatus for cooling a first air stream 10, the apparatus comprising: a first air flow path 100 that passes the first air stream sequentially through a first cooling section 13, an evaporator section 14, a low-grade condenser section 21 and a direct evaporative cooling section 16; a second air flow path 200 that passes a second air stream 20 through a high-grade condenser section 24; and a refrigerant circuit interconnecting the evaporator section and the high-grade condenser section, wherein: the first cooling section 13 is configured to cool the first air stream; the evaporator section 14 is configured to cool the first air stream by passing heat from the first air stream to a refrigerant in the refrigerant circuit; the low-grade condenser section 21 is configured to heat the first air stream; the direct evaporative cooling section 16 is configured to cool and humidify the first air stream; and the high-grade condenser section 24 is configured to cool the refrigerant of the refrigerant circuit by transferring heat from the refrigerant to the second air stream.

IPC 8 full level
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CPC (source: EP GB)
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Citation (search report)
See references of WO 2021245431A2

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