

Title (en)  
Outside air water heatpump.

Title (de)  
Aussenluft-Wasser-Wärmepumpe.

Title (fr)  
Pompe à chaleur air-extérieur-eau.

Publication  
**EP 0069676 A1 19830112 (FR)**

Application  
**EP 82401282 A 19820707**

Priority  
FR 8113388 A 19810708

Abstract (en)  
1. Heat pump of the type taking calories from the outside air and comprising a box within which are disposed to one side an evaporator (10) and a ventilation unit (11) and to the other side, submerged in an insulator, a condensor (13) coaxial with a compressor (12) itself provided with an oil through which an expanded refrigerant liquid passes, as well as an expander (14), characterized by the fact that in order for the upper part of the compressor (12) to be cooled by the external environment, the compressor is only partially submerged in insulator (19) constituting granular particles such as for example balls of polystyrene and/or particles of cork.

Abstract (fr)  
L'invention se rapporte à une pompe à chaleur prélevant des calories sur l'air extérieur. Le condenseur (13), le détendeur (14) et le compresseur (12) sont noyés dans un isolant (19). De plus, le compresseur (12), étant équipé d'un refroidisseur d'huile, est parcouru par le débit de fluide frigorigène détendu. Application aux pompes à chaleur pour le chauffage des locaux.

IPC 1-7  
**F24J 3/04**; F25B 31/00; F24H 1/18

IPC 8 full level  
**F24H 4/04** (2006.01); **F25B 30/02** (2006.01); **F25B 31/00** (2006.01)

CPC (source: EP)  
**F24H 4/04** (2013.01); **F25B 30/02** (2013.01); **F25B 31/006** (2013.01)

Citation (search report)  
• [A] FR 2381984 A1 19780922 - LICENTIA GMBH [DE]  
• [A] DE 2922832 A1 19801211 - LTH TOZD Z ZA HLAJENJE IN KLIM  
• [A] FR 322773 A 19030212 - HEINEL CARL [FR]  
• [A] DE 934361 C 19551020 - SIEMENS AG  
• [A] US 2667763 A 19540202 - HARRIS CHARLES D, et al  
• [A] DE 2634482 A1 19780202 - GOETZEWERKE  
• [AP] FR 2474149 A1 19810724 - SDECC [FR]

Cited by  
EP0270015A3; FR2669716A1; DE102007010139A1; US5802864A; DE102007010139B4; US6253564B1; WO2019167136A1; WO8707359A1

Designated contracting state (EPC)  
BE CH DE GB IT LI

DOCDB simple family (publication)  
**EP 0069676 A1 19830112**; **EP 0069676 B1 19850731**; DE 3265072 D1 19850905; ES 513729 A0 19830901; ES 8308033 A1 19830901; FR 2509442 A1 19830114; FR 2509442 B1 19860307

DOCDB simple family (application)  
**EP 82401282 A 19820707**; DE 3265072 T 19820707; ES 513729 A 19820705; FR 8113388 A 19810708