

Title (en)  
Cooling apparatus for a ships motor

Title (de)  
Kühlungsvorrichtung für Schiffsmotoren

Title (fr)  
Dispositif de refroidissement pour moteurs de navires

Publication  
**EP 1233159 A1 20020821 (EN)**

Application  
**EP 02075644 A 20020218**

Priority  
NL 1017403 A 20010219

Abstract (en)  
A cooling apparatus (3) for the cooling water of a ship's engine, comprising cooling tubes (13) through which the cooling water can be conducted, a tube plate (12) on which the cooling tubes (13) are mounted, and at the side of the tube plate (12) facing away from the cooling tubes (13) a water header (11), which water header comprises connecting stubs (9,10) for the inlet and outlet of the cooling water, wherein a rack (15) is mounted integrated in the cooling apparatus at the nose end (14) of the cooling tubes, at a distance from the tube plate (12), comprising a cathode (16) and at least one copper anode (17,18). <IMAGE>

IPC 1-7  
**F01P 11/06**; F01P 3/20; B63H 21/38

IPC 8 full level  
**F01P 3/20** (2006.01); **F01P 11/06** (2006.01); **F28D 1/047** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)  
**F01P 3/207** (2013.01); **F01P 11/06** (2013.01); **F28D 1/022** (2013.01); **F28D 1/0475** (2013.01); **F28F 19/004** (2013.01); **B63B 2013/005** (2013.01); **F01P 2011/066** (2013.01)

Citation (applicant)  
NL 1013224 C2 20010409 - BLOKSMA B V [NL]

Citation (search report)  
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• [A] WO 0078605 A1 20001228 - SCHARF EVA MARIA [DE], et al  
• [A] BEER JOACHIM: "Aussenhautkuehlung eine bevorzugte Kuehlungsart fuer Binnenschiffe", SCHIFF UND HAFEN, SEEHAFEN-VERLAG ERIK BLUMENFELD. HAMBURG, DE, vol. 27, no. 7, July 1975 (1975-07-01), pages 555 - 557, XP002138909, ISSN: 0938-1643  
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Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1233159 A1 20020821**; NL 1017403 C2 20020820

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