

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Échangeur de chaleur

Publication
EP 2363674 A1 20110907 (EN)

Application
EP 10155255 A 20100302

Priority
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Abstract (en)

The invention concerns a heat exchanger for exchanging heat between a first fluid flow generated by pumping fluid through a ship's engine and/or other heat generating equipment and through a cooling channel (11,12,13) and a second fluid flow generated by a ship's propeller (3) and the ship's speed comprising a nozzle surrounding the ship's propeller (3) having an outer wall (16) that forms an outside surface (6) of the nozzle and an inner wall (17) that forms an inside surface (4) of the nozzle and the outer wall (16) and the inner wall (17) form a cooling surface between the first fluid flow and the second fluid flow over approximately the whole perimeter of the nozzle. In accordance with the invention, the cooling surface area is approximately constant along the length of the cooling channel (11,12,13) in the nozzle.

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Citation (applicant)
JP S58183816 A 19831027 - YANMAR DIESEL ENGINE CO

Citation (search report)

- [XAY] GB 2260805 A 19930428 - THOS STOREY [GB]
- [YA] US 2682852 A 19540706 - RUFFOLO MARIO A
- [XA] GB 1125996 A 19680905 - H C F PORSCHE K G ING
- [A] GB 2363453 A 20011219 - GIBBS TECH LTD [GB], et al
- [A] DE 2355974 A1 19750522 - BECKER KG GEBR

Cited by
GB2508196B; WO2014080218A1

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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

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