

Title (en)

Underwater exhaust device for motorboats.

Title (de)

Unterwasserauspuffgerät für Motorboote.

Title (fr)

Dispositif de déchargement sous-marin des gaz d'échappement pour canot à moteur.

Publication

EP 0282462 A1 19880914 (EN)

Application

EP 88830085 A 19880302

Priority

IT 4770587 A 19870310

Abstract (en)

The underwater exhaust device for motorboats according to the present invention in its broadest embodiment comprises a main exhaust pipe, having at least the final portion below the level of the water line, and a secondary exhaust pipe of a smaller section, which branches off from the main pipe and is entirely located above the water line. The invention refers also to motorboat engines supplied with the above device as well as to motorboats equipped with said motorboat engines.

IPC 1-7

B63B 21/32; **F01N 7/12**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 4002136 A 19770111 - MICHALAK JEROME M
- [A] GB 2065036 A 19810624 - HENWOOD M R
- [A] EP 0088640 A2 19830914 - IKEDA AKIRA
- [A] US 4393802 A 19830719 - RIZZO SALVATORE A [US]

Cited by

US5234364A; US5676575A; US7172474B2

Designated contracting state (EPC)

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EP 0282462 A1 19880914; **EP 0282462 B1 19911009**; DE 3865327 D1 19911114; ES 2027037 T3 19920516; IT 1205740 B 19890331; IT 8747705 A0 19870310

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