

Title (en)

Outboard marine drive including an engine lower cowling made of plastic material

Title (de)

Aussenbordantriebseinheit mit einem Triebwerksuntergehäuse aus Kunststoff

Title (fr)

Unité d'entraînement hors-bord comprenant un capot inférieur du moteur en matière plastique

Publication

EP 1225125 A3 20040114 (EN)

Application

EP 02250335 A 20020118

Priority

JP 2001011836 A 20010119

Abstract (en)

[origin: EP1225125A2] In an outboard marine drive, an engine (E) is supported on an engine mount case (5), and an under cover (10) made of plastic material having a lower end attached to the engine mount case defines an open upper end which engages an open lower end of an engine cover (11) also made of plastic material. A metallic stay member (14) having a lower end fixedly attached to the engine mount case which is typically made of cast aluminum alloy and an upper end fixedly supporting a support rail (15) reinforces the open upper end of the under cover. Thus, the essential part is reinforced by a metallic member, and the required mechanical strength can be achieved while minimizing the increase in weight. The upper end of the stay member may be used for attaching a latch unit (17) for securing the engine cover to the under cover or the engine mount case. <IMAGE>

IPC 1-7

B63H 20/00; **B63H 20/32**; **F02B 61/04**

IPC 8 full level

B63H 20/00 (2006.01); **B63H 20/32** (2006.01)

CPC (source: EP)

B63H 20/00 (2013.01); **B63H 20/32** (2013.01)

Citation (search report)

- [A] US 5069643 A 19911203 - WESTBERG TOM [US], et al
- [A] US 4955836 A 19900911 - SUZUKI TOMONORI [JP], et al
- [A] US 4952180 A 19900828 - WATANABE EIFU [JP], et al
- [AD] US 5263884 A 19931123 - OISHI HIROSHI [JP]

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DOCDB simple family (publication)

EP 1225125 A2 20020724; **EP 1225125 A3 20040114**; **EP 1225125 B1 20050608**; CN 1194881 C 20050330; CN 1365930 A 20020828; DE 60204487 D1 20050714; DE 60204487 T2 20051027; JP 2002211489 A 20020731; JP 4563596 B2 20101013

DOCDB simple family (application)

EP 02250335 A 20020118; CN 02101770 A 20020118; DE 60204487 T 20020118; JP 2001011836 A 20010119