

Title (en)
Improvements relating to dredgers.

Title (de)
Bagger.

Title (fr)
Excavateurs.

Publication
EP 0328198 A1 19890816 (EN)

Application
EP 89200239 A 19890203

Priority
GB 8802907 A 19880209

Abstract (en)
A method and apparatus for dredging in flowing waters comprising a support member (3) carrying thrust means (13) so that the thrust means (13) is directed downwardly towards the area to be cleared, the support member (3) being mounted in the water so that in operation it presents a surface towards the flow of water which causes a resultant downward component of force to balance the upward component of force caused by the thrust means (13).

IPC 1-7
E02F 3/88; **E02F 3/90**; **E02F 3/92**

IPC 8 full level
B63C 7/00 (2006.01); **E02F 3/90** (2006.01); **E02F 3/92** (2006.01); **E02F 5/10** (2006.01); **E02F 5/28** (2006.01)

CPC (source: EP KR)
B63C 7/00 (2013.01 - EP); **E02F 3/88** (2013.01 - KR); **E02F 3/90** (2013.01 - EP); **E02F 3/9206** (2013.01 - EP); **E02F 5/003** (2013.01 - EP); **E02F 5/104** (2013.01 - EP); **E02F 5/107** (2013.01 - EP); **E02F 5/287** (2013.01 - EP)

Citation (search report)

- [A] FR 2389533 A1 19781201 - NAL EXPL OCEANS CENTRE [FR]
- [A] US 3706142 A 19721219 - BRUNNER GUIDO
- [A] FR 997304 A 19520104
- [A] EP 0012458 A1 19800625 - KONIJN MACHINEBOUW NV [NL]
- [A] FR 920546 A 19470410 - SMIT & ZOON S SCHEEPS EN WERKT
- [A] US 4123858 A 19781107 - BATCHELDER GEORGE W
- [A] US 4253255 A 19810303 - DURELL WILLIAM E

Cited by
FR2825394A1; US6125560A; US6053663A; GB2359101A; NL1007800C2; AU737332B2; US6430848B1; WO9827286A1; WO9732091A1; WO9950508A1; WO9624727A1; EP4036321A1; EP4036322A1; US8893408B2; WO2021242554A1; US11828042B2; WO2018037232A3

Designated contracting state (EPC)
ES GR

DOCDB simple family (publication)
EP 0328198 A1 19890816; AT E136967 T1 19960515; AU 3039889 A 19890906; DE 68926295 D1 19960523; DE 68926295 T2 19970102; EP 0419484 A1 19910403; EP 0419484 B1 19960417; ES 2088907 T3 19961001; GB 8802907 D0 19880309; GR 3020562 T3 19961031; KR 900700700 A 19900816; SG 64359 A1 19990427; WO 8907691 A1 19890824; ZA 89922 B 19900530

DOCDB simple family (application)
EP 89200239 A 19890203; AT 89902038 T 19890203; AU 3039889 A 19890203; DE 68926295 T 19890203; EP 8900112 W 19890203; EP 89902038 A 19890203; ES 89902038 T 19890203; GB 8802907 A 19880209; GR 960401931 T 19960717; KR 890701747 A 19890922; SG 1996007770 A 19890203; ZA 89922 A 19890207