

Title (en)

PRECIPITATED AMORPHOUS SILICA OR SILICATE AS GRINDING AID FOR FISH MEAL OR FISH FOOD

Publication

EP 0413965 A3 19910424 (DE)

Application

EP 90113840 A 19900719

Priority

US 39691589 A 19890822

Abstract (en)

[origin: US4950488A] A process for producing free flowing fish feed wherein precipitated amorphous silica or silicate or silica gel is added to fish feed and fish meal. The additive prevents clogging during grinding and tackiness in the fish feed.

IPC 1-7

A23K 1/175; **A23K 1/18**

IPC 8 full level

A23K 1/175 (2006.01); **A23K 1/18** (2006.01)

CPC (source: EP US)

A23K 20/28 (2016.05 - EP US); **A23K 50/80** (2016.05 - EP US); **Y10S 426/805** (2013.01 - EP US); **Y10S 426/807** (2013.01 - EP US)

Citation (search report)

- [Y] DE 1812351 A1 19700813 - DEGUSSA
- [Y] US 4617294 A 19861014 - KRIVAK THOMAS G [US], et al
- [A] US 4001379 A 19770104 - TURK GUNTER, et al
- [A] FR 2148614 A1 19730323 - DEGUSSA
- [A] FR 2584270 A1 19870109 - DOSZPOLY FRIGYES [FR]
- [A] DERWENT FILE SUPPLIER WPIL, 1986, accession no. 86-254726 [39], Derwent Publications Ltd, London, GB; & JP-A-61 181 345 (MITSUBISHI METAL K.K.) 14-08-1986
- [A] DERWENT FILE SUPPLIER, WPI, 1976, accession no. 76-41103x [22], Derwent Publications Ltd, London, GB; & JP-A-74 117 388 (TAKEDA CHEMICAL IND. K.K.) 11-10-1974

Designated contracting state (EPC)

BE DE DK FR GB NL SE

DOCDB simple family (publication)

US 4950488 A 19900821; CA 2023607 A1 19910223; DE 59002993 D1 19931111; DE 59002993 T2 19940609; DK 0413965 T3 19931115; EP 0413965 A2 19910227; EP 0413965 A3 19910424; EP 0413965 B1 19931006; NO 903677 D0 19900821; NO 903677 L 19910225

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