

Title (en)

PROCESS AND DEVICE FOR PRODUCING MONOBASIC PROPELLANT POWDERS USING ALCOHOL AND ETHER AS SOLVENTS.

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON EINBASIGEN TREIBLADUNGSPULVERN MIT ALKOHOL UND ETHER ALS LÖSUNGSMITTEL.

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE DES POUDRES DE CHARGE PROPULSIVE MONOBASIQUES EN UTILISANT UN ALCOOL OU UN ETHER EN TANT QUE SOLVANT.

Publication

**EP 0422173 B1 19940105 (DE)**

Application

**EP 90906166 A 19900417**

Priority

DE 3913603 A 19890425

Abstract (en)

[origin: US5186871A] PCT No. PCT/EP90/00615 Sec. 371 Date Dec. 13, 1990 Sec. 102(e) Date Dec. 13, 1990 PCT Filed Apr. 17, 1990 PCT Pub. No. WO90/12772 PCT Pub. Date Nov. 1, 1990. In a production of monobasic propellant charge powders with alcohol and ether as solvents there is the risk of ether bubbles forming in the propellant charge powder material, and those bubbles greatly reduce the quality of the propellant charge powder. The invention provides for cooling the propellant charge powder material prior to its leaving the extruder. To accomplish that, the extruder head (4) is provided with a cooling means. The invention is especially well suited for use in the preparation of monobasic propellant charge powders with alcohol and ether as solvents.

IPC 1-7

**C06B 21/00**; **B30B 15/34**; **B30B 11/22**

IPC 8 full level

**C06B 21/00** (2006.01); **B30B 11/22** (2006.01); **B30B 15/34** (2006.01); **C06D 5/00** (2006.01)

CPC (source: EP KR US)

**B30B 11/224** (2013.01 - EP US); **B30B 15/34** (2013.01 - EP US); **C06B 21/00** (2013.01 - KR); **C06B 21/0075** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

**US 5186871 A 19930216**; AR 242764 A1 19930531; AU 5426190 A 19901116; AU 628165 B2 19920910; BR 9006725 A 19910806; CA 2028805 A1 19901026; CA 2028805 C 19990824; CN 1045948 C 19991027; CN 1046888 A 19901114; DE 3913603 C1 19900329; EG 20749 A 20000131; EP 0422173 A1 19910417; EP 0422173 B1 19940105; ES 2049975 T3 19940501; FI 906353 A0 19901221; FI 98302 B 19970214; FI 98302 C 19970526; GR 1002291 B 19960503; GR 900100273 A 19910927; IL 94192 A0 19910131; IL 94192 A 19930708; JP H03505198 A 19911114; JP H0688862 B2 19941109; KR 920700175 A 19920219; KR 940004633 B1 19940527; NO 174580 B 19940221; NO 174580 C 19940601; NO 905578 D0 19901221; NO 905578 L 19901221; PT 93866 A 19920228; PT 93866 B 19961031; WO 9012772 A2 19901101; WO 9012772 A3 19901213; ZA 903075 B 19910130

DOCDB simple family (application)

**US 63416190 A 19901213**; AR 31666590 A 19900419; AU 5426190 A 19900417; BR 9006725 A 19900417; CA 2028805 A 19900417; CN 90102246 A 19900424; DE 3913603 A 19890425; EG 24490 A 19900423; EP 9000615 W 19900417; EP 90906166 A 19900417; ES 90906166 T 19900417; FI 906353 A 19901221; GR 900100273 A 19900409; IL 9419290 A 19900424; JP 50596590 A 19900417; KR 900702625 A 19901215; NO 905578 A 19901221; PT 9386690 A 19900424; ZA 903075 A 19900424