

Title (en)

SEPARATING DEVICE FOR SEGREGATING FILAMENTS KEPT IN SIDE-BY-SIDE ARRANGEMENT

Publication

EP 0301174 B1 19930324 (DE)

Application

EP 88106286 A 19880420

Priority

- DE 3724822 A 19870727
- DE 8713074 U 19870929

Abstract (en)

[origin: US4866821A] A separator for successively seizing threads (14) held in an array (28) includes a frame (10) having a front face or recess gap (12) and in which two or more strap or bar needles (15, 16, 18) are slidably disposed side by side. Each needle is provided with a pair of facing hooks (20, 22; 24, 26) at opposite sides of a cutout in its forward edge for cooperatively seizing a single thread for separation when the needles are driven in opposite directions.

IPC 1-7

D03D 3/04

IPC 8 full level

D03D 3/04 (2006.01); **D21F 1/00** (2006.01)

CPC (source: EP US)

D03D 3/04 (2013.01 - EP US); **D21F 1/0054** (2013.01 - EP US)

Cited by

DE8903454U1; DE20105091U1; EP0440595A3; EP0444587A1; DE9002278U1; US6948531B2; WO2005090663A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 8713074 U1 19881124; DE 3879567 D1 19930429; EP 0301174 A1 19890201; EP 0301174 B1 19930324; US 4866821 A 19890919

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