

Title (en)
PENCIL CORE, AND METHODS AND APPARATUS FOR ITS MANUFACTURE

Publication
EP 0048571 B2 19880615 (EN)

Application
EP 81304138 A 19810910

Priority
JP 13166880 A 19800924

Abstract (en)
[origin: EP0048571A2] A novel pencil core (20) constituted by a plurality of filaments (10) of a pencil core material (2) individually having a thickness of 10 to 250 microns, and bundled and joined together with a binder material (13). Such a pencil core (20) is manufactured by (a) producing a semi-soft core material (2) of graphite and a synthetic resin, (b) extruding said core material (2) through nozzles (4) to produce a plurality of filaments (10), bundling said filaments (10) together in a ring (7b) into which is forced a binder material (13) by a screw-feed device (7c-7m) to encase the filaments, and (d) compressing the bundled and encased filaments (10) between rolls (9a, 9b) to produce the finished pencil core (20). Heat-treatment is provided by various heaters 6a, 6b, 8).

IPC 1-7
B43K 19/00

IPC 8 full level
B43K 19/02 (2006.01); **B43K 19/18** (2006.01); **C09D 13/00** (2006.01)

CPC (source: EP)
B43K 19/18 (2013.01)

Cited by
FR2693634A1; US4545983A; WO9402038A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0048571 A2 19820331; **EP 0048571 A3 19820609**; **EP 0048571 B1 19840801**; **EP 0048571 B2 19880615**; DE 3165243 D1 19840906;
JP S5757696 A 19820406

DOCDB simple family (application)
EP 81304138 A 19810910; DE 3165243 T 19810910; JP 13166880 A 19800924