

Title (en)
Sharpener for soft pencil lead

Title (de)
Spitzer für Weichminenstifte

Title (fr)
Taille-crayon pour mine de crayon molle

Publication
EP 1043173 B1 20021016 (DE)

Application
EP 00101137 A 20000121

Priority
DE 19915384 A 19990406

Abstract (en)
[origin: US6301791B1] A sharpener for soft-core pencils includes a core shaper with a shaping edge for shaping the core tip, the edge being positioned in the free space in front of the pencil-guiding channel. This shaping edge is a part of a detachably-secured, separate insert, which limits the free space at the rear housing side, and supports the shaping edge on its side facing the guide channel.

IPC 1-7
B43L 23/08

IPC 8 full level
B43L 23/08 (2006.01)

CPC (source: EP US)
B43L 23/085 (2013.01 - EP US)

Cited by
CN107415141A; US6976314B2

Designated contracting state (EPC)
DE FR GB IE IT

DOCDB simple family (publication)
US 6301791 B1 20011016; DE 19915384 A1 20001019; DE 50000631 D1 20021121; EP 1043173 A1 20001011; EP 1043173 B1 20021016

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US 54388800 A 20000406; DE 19915384 A 19990406; DE 50000631 T 20000121; EP 00101137 A 20000121