

Title (en)
Double-chuck mechanical pencil

Title (de)
Füllminenstift mit zwei Spannbacken

Title (fr)
Porte-mine à deux pinces de serrage

Publication
EP 0863023 A3 20000628 (EN)

Application
EP 97310618 A 19971224

Priority
JP 6175497 A 19970303

Abstract (en)
[origin: EP0863023A2] The invention is intended to prevent, in a double-chuck mechanical pencil provided with an eraser, the torsional breakage of a lead gripped by a front lead chuck and a back lead chuck due to the turning of a lead tank caused when an eraser is used, and to eliminate inconvenience to a lead supplying operation caused by the abrasion of the eraser. A double-chuck mechanical pencil having a front lead chuck (11) for holding a lead and a back lead chuck (5) for advancing a lead, comprises a barrel (1), a lead tank (4) connected to the back lead chuck (5), an adapter (3) fixedly put on a back portion of the lead tank (4), restrained from rotation relative to the barrel (1) and axially movable, and a rotary eraser projecting mechanism (12) provided with a support member (13) or an eraser support structure (16) provided with a support member (17) restrained from rotation relative to the adapter (3) and detachably connected to a back portion of the adapter (3). <IMAGE>

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B43K 21/20 (2006.01); **B43K 29/02** (2006.01)

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B43K 21/00 (2013.01 - KR); **B43K 21/20** (2013.01 - EP); **B43K 21/22** (2013.01 - KR); **B43K 29/02** (2013.01 - EP)

Citation (search report)
• [Y] EP 0715968 A1 19960612 - KOTOBUKI & CO LTD [JP]
• [Y] EP 0321581 A1 19890628 - PENTEL KK [JP]
• [A] US 5018891 A 19910528 - KAGEYAMA HIDEHEI [JP], et al
• [AP] US 5683191 A 19971104 - KAGEYAMA SHUHEI [JP], et al

Cited by
EP1325818A1; EP1391323A1; CN108698433A; EP3450197A4; US6935799B2

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