

Title (en)
PENCIL SHARPENER

Title (de)
STIFTSPITZER

Title (fr)
TAILLE-CRAYONS

Publication
EP 4070964 A1 20221012 (DE)

Application
EP 22166593 A 20220404

Priority
DE 202021101862 U 20210407

Abstract (en)
[origin: US2022324251A1] The present disclosure provides a pencil sharpener for pencils having a lead surrounded by a lead carrier. The pencil sharpener includes a hollow guide channel for the pencil to be sharpened. An inner surface of the guide channel forms a guide surface for a partial area of a lead carrier of the pencil to be sharpened. To prevent contamination of an outer surface of the lead carrier the inner surface of the guide channel is interrupted by at least one cleaning groove extending in an axial direction of the guide channel.

Abstract (de)
Stiftspitzer mit einem hohlen Führungskanal (1) für den anzuspitzenden Stift, wobei die Innenfläche des Führungskanals (1) die Führungsfläche (3) für einen Teil-bereich des Minenträgers eines anzuspitzenden Stiftes bildet und wobei die Innenfläche des Führungskanals (1) von mindestens einer sich in Axialrichtung (2) des Führungskanals (1) erstreckenden Reinigungsriefe (5) unterbrochen ist.

IPC 8 full level
B43L 23/08 (2006.01); **B08B 1/20** (2024.01)

CPC (source: EP US)
B08B 1/12 (2024.01 - US); **B08B 1/20** (2024.01 - US); **B08B 1/32** (2024.01 - US); **B08B 1/34** (2024.01 - EP); **B43L 23/008** (2013.01 - US); **B43L 23/02** (2013.01 - US); **B43L 23/08** (2013.01 - EP US)

Citation (search report)
• [XAI] US 2005005459 A1 20050113 - DONALDSON JOSEPH K [US]
• [A] US 2004154172 A1 20040812 - TATZ ELIEZER [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 202021101862 U1 20220722; EP 4070964 A1 20221012; JP 2022161010 A 20221020; US 11999185 B2 20240604; US 2022324251 A1 20221013

DOCDB simple family (application)
DE 202021101862 U 20210407; EP 22166593 A 20220404; JP 2022051573 A 20220328; US 202217713297 A 20220405