

Title (en)

DEVICE FOR FILLING WRITING, DRAWING, PRINTING OR PAINTING INSTRUMENTS

Title (de)

VORRICHTUNG ZUM FÜLLEN VON SCHREIB-, ZEICHEN-, DRUCK- ODER MALGERÄTEN

Title (fr)

DISPOSITIF DE REMPLISSAGE POUR INSTRUMENTS A ECRIRE, DESSINER, IMPRIMER OU PEINDRE

Publication

EP 0584158 B2 20001220 (DE)

Application

EP 92910156 A 19920429

Priority

- DE 9200348 W 19920429
- DE 4115275 A 19910510

Abstract (en)

[origin: WO9220531A1] The proposal is for a device (10) for filling writing, drawing, printing and painting instruments or writing fluid reservoirs (writing instruments) (11) with writing, drawing, printing or painting fluid (writing fluid) (13), comprising a container (14) with an aperture to hold the writing fluid (13), the interior (15) of which communicates with the atmosphere (19) and a capillary fluid transport connection (16) through which the writing fluid is conveyed from the inside of the container to the writing instrument. A device (17) to take the writing instrument (11) is sealed in the container aperture and one end of the capillary fluid transport connection (16) opens into the instrument (17) and contacts a writing point (12) or an aperture in the writing instrument (11). The connection to the atmosphere (19) is provided via a line (18) passing through at least one chamber (23; 183).

IPC 1-7

B43L 25/00

IPC 8 full level

B43K 11/00 (2006.01); **B43L 25/00** (2006.01)

CPC (source: EP)

B43K 11/005 (2013.01)

Citation (opposition)

Opponent :

- DE 856569 C 19521124 - ESTERBROOK PEN CO
- GB 1133979 A 19681120 - MAGIC MARKER CORP
- GB 1116859 A 19680612 - DAI NIHON BUNGU KABUSHIKI KAIS
- US 425834 A 18900415
- DE 672038 C 19390218 - KARL SCHROEDER
- DE 3332466 C2 19850725

Cited by

CN103587308A; CN105398266A

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 9220531 A1 19921126; DE 4115275 A1 19921112; DE 4115275 C2 19951019; DE 59203595 D1 19951012; DE 9206513 U1 19920924; EP 0584158 A1 19940302; EP 0584158 B1 19950906; EP 0584158 B2 20001220

DOCDB simple family (application)

DE 9200348 W 19920429; DE 4115275 A 19910510; DE 59203595 T 19920429; DE 9206513 U 19920429; EP 92910156 A 19920429