

Title (en)

FILLING NEEDLE FOR DISPENSING LIQUID COMPOSITIONS INTO CONTAINERS

Title (de)

FÜLLNADEL ZUR ABGABE VON FLÜSSIGEN ZUSAMMENSETZUNGEN IN BEHÄLTER

Title (fr)

AIGUILLE DE REMPLISSAGE POUR LA DISTRIBUTION DE COMPOSITIONS LIQUIDES DANS DES CONTENEURS

Publication

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Application

EP 20214143 A 20201215

Priority

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Abstract (en)

The invention discloses a filling needle (1) for dispensing liquid compositions into a container, comprising a connector (6) for connecting a feeding line (22), a needle pipe (2) leading from the connector (6) to an outlet (10) of the filling needle (1), wherein the needle pipe (2) is curved at an inclination angle (β) and/or the outlet (10) comprises at least two grid-elements (3).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

WO 2008103484 A2 20080828 - OVERLOOK IND INC [US], et al

Citation (search report)

- [X] US 2002040737 A1 20020411 - BELDHAM PAUL M [US], et al
- [X] US 2019016484 A1 20190117 - DIAZ GUERRERO CARLOS ALBERTO [CA]
- [X] US 5950691 A 19990914 - ABE KAZUO [JP], et al
- [X] JP 2015160626 A 20150907 - DAINIPPON PRINTING CO LTD
- [A] US 2010024910 A1 20100204 - NAKAMORI KEITA [JP], et al

Designated contracting state (EPC)

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