

Title (en)

Automatic gravity filling plant with a total scraping cleaning system

Title (de)

Automatische Schwerkraftfüllanlage mit einem Reinigungssystem mit vollständigem Abschaben

Title (fr)

Installation de remplissage par gravité avec un système de nettoyage par râclage total

Publication

**EP 1020360 A2 20000719 (EN)**

Application

**EP 00100548 A 20000112**

Priority

IT RE990004 A 19990118

Abstract (en)

The injection heads (1) of a filling machine are mounted in alignment with the horizontal delivery unit (5), intersecting it horizontally. The delivery unit (5) connects with the fixed line (11) by means of an articulated tubular duct (12) with tight rotary joints (13) that allows it to shift in the space, keeping a horizontal orientation. The unit (5), the duct (12) and the line (11) have a constant diameter and can be internally traveled by at least a scraping pad (15) that passes through and cleans also heads (1). Injectors (7) of heads (1) discharge from the residues and clean either by gravity or by means of additional independent scrapers (37). <IMAGE>

IPC 1-7

**B65B 39/00**

IPC 8 full level

**B65B 39/00** (2006.01)

CPC (source: EP)

**B65B 39/00** (2013.01); **B65B 2210/08** (2013.01)

Cited by

US11358849B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1020360 A2 20000719**; **EP 1020360 A3 20020410**; **EP 1020360 B1 20040324**; AT E262448 T1 20040415; DE 60009176 D1 20040429; DE 60009176 T2 20050224; ES 2216741 T3 20041101; IT 1311025 B1 20020228; IT RE990004 A0 19990118; IT RE990004 A1 20000718

DOCDB simple family (application)

**EP 00100548 A 20000112**; AT 00100548 T 20000112; DE 60009176 T 20000112; ES 00100548 T 20000112; IT RE990004 A 19990118