

Title (en)
PRINTING UNIT FOR PRINTING FOODS

Title (de)
DRUCKEINHEIT FÜR DEN DRUCK VON NAHRUNGSMITTELN

Title (fr)
UNITÉ DE COMPRESSION POUR LA COMPRESSION DE PRODUITS ALIMENTAIRES

Publication
EP 3376882 A1 20180926 (DE)

Application
EP 16784153 A 20161013

Priority
• DE 102015222758 A 20151118
• EP 2016074579 W 20161013

Abstract (en)
[origin: WO2017084812A1] The invention relates to a printing unit (200) for printing a food (117). The printing unit (200) comprises a printing head (206), which has a printing-head body (210) and a cartridge carrier (216), wherein the printing head (206) can be positioned over a printing surface (401) for a food (117) to be printed. The cartridge carrier (216) is designed to hold at least one removable cartridge (306) for edible printing mass (114), wherein a cartridge (306) comprises a plunger (324), a cartridge body (322), and a cartridge bottom (323) having a cartridge nozzle (326). The printing-head body (210) comprises a cartridge motor (217), by means of which the plunger (324) of a cartridge (306) inserted into the cartridge carrier (216) can be pressed toward the cartridge bottom (323) of the inserted cartridge (306) from above in order to press printing mass (114) out of the inserted cartridge (306) and onto the printing surface (401) via the cartridge nozzle (326). In addition, the printing unit (200) comprises positioning means (201, 202, 203, 204, 205, 213, 214), which are designed to move the printing head (206) to different positions. Furthermore, the printing unit (200) comprises a control unit (120), which is designed to control the positioning means (201, 202, 203, 204, 205, 213, 214) and the cartridge motor (217) in order to print a food (117) by means of the printing mass (114) of at least one inserted cartridge (306).

IPC 8 full level
A23P 20/25 (2016.01); **A23P 30/20** (2016.01)

CPC (source: EP US)
A23P 20/25 (2016.07 - EP US); **A23P 30/20** (2016.07 - EP US); **B29C 64/209** (2017.07 - US); **A23P 2020/253** (2016.07 - EP US); **B33Y 30/00** (2014.12 - US)

Citation (search report)
See references of WO 2017084812A1

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 102015222758 A1 20170518; CN 108347992 A 20180731; EP 3376882 A1 20180926; US 2018338519 A1 20181129; WO 2017084812 A1 20170526

DOCDB simple family (application)
DE 102015222758 A 20151118; CN 201680066872 A 20161013; EP 16784153 A 20161013; EP 2016074579 W 20161013; US 201615776878 A 20161013