

Title (en)  
MACHINE AND METHOD FOR PACKAGING POWDER PRODUCTS INSIDE A CONTAINER MADE OF DEFORMABLE MATERIAL

Title (de)  
MASCHINE UND VERFAHREN ZUM VERPACKEN VON PRODUKTEN IN PULVER INNERHALB EINES AUS VERFORMBAREM MATERIAL HERGESTELLTEN BEHÄLTER

Title (fr)  
MACHINE ET PROCÉDÉ DE CONDITIONNEMENT DE PRODUITS SOUS FORME DE POUDRE À L'INTÉRIEUR D'UN CONTENANT RÉALISÉ EN MATÉRIAU DÉFORMABLE

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Application  
**EP 18182340 A 20180709**

Priority  
IT 201700077084 A 20170710

Abstract (en)  
A machine (1) for packaging products in powder, for example coffee powder, inside a container made of deformable material, comprising a compacting unit (2) and a filling unit (6). The compacting unit (2) comprises a compacting chamber (13) configured to receive a dose of product in powder (3), at a first loading station (4). A presser element (17) is configured to compact the dose of product in powder (3) inside the compacting chamber (13) and subsequently transfers the compacted dose of product in powder (5) into a container (9) arranged inside a filling chamber (21) of the filling unit (6). The compacted dose of product in powder (5) can be further compacted inside the filling chamber (21). The container (9) filled with the compacted dose of product in powder (5) and defining a package being processed (8), is inserted into a vacuum chamber (10) where sealing means (11) close and seal the package being processed (8) during a step of activating vacuum in the vacuum chamber (10).

IPC 8 full level  
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Citation (search report)

- [YA] WO 2016020822 A1 20160211 - IMA SPA [IT]
- [Y] DE 102007053034 A1 20090514 - BOSCH GMBH ROBERT [DE]
- [A] SE 519425 C2 20030225 - ROCKER PRODUCTION AB [SE]
- [A] DE 697209 C 19401008 - KOELNER WERKZEUGMASCHINENFABRI
- [A] WO 2015118450 A1 20150813 - IMA SPA [IT]
- [A] US 4154045 A 19790515 - CHRISTENSSON OD W [SE]
- [A] DE 2109834 A1 19720914
- [A] DE 19637615 C1 19971002 - BOSCH GMBH ROBERT [DE]
- [A] US 5097648 A 19920324 - BERNER JOACHIM [DE], et al

Cited by  
CN110171611A; CN115447813A; CN113815971A

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