

Title (en)

FILLING MACHINE CONFIGURED TO FILL CONTAINERS WITH A POURABLE PRODUCT AND METHOD

Title (de)

FÜLLMASCHINE ZUM FÜLLEN VON BEHÄLTERN MIT EINEM FLIESSFÄHIGEN PRODUKT UND VERFAHREN

Title (fr)

MACHINE DE REMPLISSAGE CONÇUE POUR REMPLIR DES CONTENANTS AVEC UN PRODUIT COULANT ET PROCÉDÉ

Publication

EP 4281404 A1 20231129 (EN)

Application

EP 21701436 A 20210119

Priority

EP 2021051047 W 20210119

Abstract (en)

[origin: WO2022156881A1] There is described a filling machine (1) configured to fill containers (2) with a pourable product and comprising: a conveying device (3) configured to advance a succession of containers (2) to be filled along an advancement path; a plurality of filling devices (4) each configured to fill a respective container (2) with a predetermined amount of pourable product; a product circuit (5) fluidly connectable to a product source and to the filling devices (4) and configured for conveying the pourable product from the product source to each filling device (4); and a vacuum circuit (10) fluidly connectable to each container (2) and configured to extract oxygen from each container (2) prior to the filling of each container (2) with the pourable product; the vacuum circuit (10) comprises a liquid-ring vacuum pump (12) having an operative liquid for the functioning thereof and connectable to each container (2) to apply vacuum, in use, to each container (2) to extract oxygen therefrom; the filling machine (1) further comprises an operative liquid circuit (13) configured to recirculate the operative liquid away from and towards the liquid-ring vacuum pump (12); and a single heat exchanger (14) thermally interposed between the operative liquid circuit (13) and the product circuit (5) and defining, in use, a heat exchange interface directly between the pourable product and the operative liquid.

IPC 8 full level

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