

Title (en)
FILLING SYSTEM WITH COMPENSATED FLOW RATE

Title (de)
FÜLLSYSTEM MIT KOMPENSATION DES DURCHFLUSSES

Title (fr)
SYSTÈME DE REMPLISSAGE À DÉBIT COMPENSÉ

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Application
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Abstract (en)
[origin: WO2020007806A1] The invention relates to a filling system (1) for a container intended to store solid particles, the system (1) being arranged to cooperate with a supply device for feeding solid particles and comprising a device (5) for distributing the solid particles, which has at least one separator element (9) intended to receive and selectively distribute the solid particles towards a dispensing device (7), the separator element (9) comprising a receiving body (11) for receiving solid particles, one end of which has an axial opening (13) for continuously feeding the dispensing device (7), the dispensing device (7) comprising at least one scattering element (21) for homogeneously filling the container with solid particles, which is driven by a drive shaft passing through the axial opening (13). According to the invention, the receiving body (11) comprises a frustoconical part (11 a) which has the axial opening (13) and flares away from the axial opening (13), the frustoconical part (11 a) being extended by a tubular portion (11 b) comprising at least one radial opening (15) which is located upstream of the axial opening (13) and is arranged to direct the solid particles without encountering those exiting the axial opening (13) before arriving in the dispensing device (7) from a predetermined amount of solid particles stored in the frustoconical part (11 a) of the receiving body (11) in order to guarantee a minimum flow of solid particles even in the event of variations in the flow rate of the supply device.

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