

Title (en)
DEVICE FOR CONTROLLING THE QUANTITY OF FLUENT SOLID MATERIAL

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Application
EP 81810004 A 19810106

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Abstract (en)
[origin: EP0032481A2] The pulverulent medium (F) is withdrawn from a storage container (6) by means of a screw conveyor (8) and conveyed by an intermediate container (9) to the packaging container (3) provided below it. A sensor (30) arranged in the intermediate container (9) is connected in a controlled manner with the drive motor (25) of the screw conveyor (8) and holds the level (h) of the medium (F) situated in the intermediate container (9) virtually constant. The pulverulent medium conveyed by the screw conveyor (8) thus necessarily falls through a free section (H) and hits the material situated in the intermediate container with a certain force, so that bridge formation and blockages are avoided. The housing of the screw conveyor projects into the intermediate container (9) by a certain distance (a), while the screw conveyor (20) preferably projects out of the housing of the screw conveyor by a certain distance (b). The device which is used in particular for the fine metering of pulverulent dyes has a cylindrical housing (101) having an inlet opening (85) and an outlet opening (86). Situated in the outlet opening (86) is a casing (125) of polytetrafluoroethylene. A sealing member (107) of anticorrosive steel is rotatably mounted in the housing and has the shape of a section of the circumferential surface of a circular cylinder and is connected to a drive (115). A rotationally driven scraper (116) rotates against the closing direction of the sealing member (107) and prevents the bridge formation or the accumulation of dye powder in the margin of the outlet opening (86).
<IMAGE>

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IPC 8 full level
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Citation (search report)
• [A] DE 1250769 B
• [A] DE 194030 C

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