

Title (en)

PROCESS AND DEVICE FOR FEEDING CONCRETE OR OTHER THICK MATERIALS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM FÖRDERN VON BETON ODER ANDEREN DICKSTOFFEN

Title (fr)

PROCEDE ET DISPOSITIF DE TRANSFERT DE BETON OU D'AUTRES LIQUIDES EPAIS

Publication

EP 0808422 B1 19981111 (DE)

Application

EP 96901313 A 19960119

Priority

- DE 19503986 A 19950207
- EP 9600228 W 19960119

Abstract (en)

[origin: DE19503986A1] A process and device are disclosed for feeding concrete and other thick materials from a container into a feeding pipe by means of two feeding cylinders that can be alternatively connected to the container or to the feeding pipe by a switching device. The feeding pistons of the feeding cylinder alternatively carry out a suction and a compression stroke. The average piston speed during the suction stroke is at least temporarily higher than during the compression stroke. In order to achieve a continuous feeding flow, both feeding cylinders are at least temporarily separated from the container, short-circuited together and connected to the feeding line during the switching period t_u of the switching device. One of the feeding pistons finishes its compression stroke in this condition and at the same time the other feeding piston starts its compression stroke. The corresponding feeding piston starts its suction stroke only when the short-circuit is again substantially cancelled and only the appropriate feeding cylinder is connected to the container.

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F04B 15/02; **F04B 11/00**; **F04B 7/00**; **F04B 9/117**

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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IT

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DE 19503986 A1 19960808; CN 1177393 A 19980325; EP 0808422 A1 19971126; EP 0808422 B1 19981111; JP 3081923 B2 20000828; JP H10505647 A 19980602; KR 100264234 B1 20000901; KR 19980702057 A 19980715; US 5993181 A 19991130; WO 9624767 A1 19960815

DOCDB simple family (application)

DE 19503986 A 19950207; CN 96192285 A 19960119; EP 9600228 W 19960119; EP 96901313 A 19960119; JP 52392596 A 19960119; KR 19970705452 A 19970807; US 93068798 A 19980106