

Title (en)
FREEZE-DRYING PLANT

Title (de)
GEFRIERTROCKNUNGSANLAGE

Title (fr)
INSTALLATION DE LYOPHILISATION

Publication
EP 0672234 B1 19971001 (DE)

Application
EP 94924796 A 19940722

Priority
• DE 4334902 A 19931013
• EP 9402426 W 19940722

Abstract (en)
[origin: WO9510744A1] A freeze-drying plant consisting overall of a condenser chamber (2) and a drying chamber (1), the drying chamber (1) of which is fitted with a system of superimposed, possibly adjustable supporting plates (9) acting as supports for phials (13) containing a drying substance, is fitted for the continuous determination of the mass of the drying substance and hence to monitor the drying cycle with weighing cells (15) connected to a phial (13) via a clamp arm (16). The weighing cells (15) are either permanently fitted inside the drying chamber (1), e.g. on its wall or on components which cannot move in relation to the wall, or they are directly on the supporting plates (9). The basis of the weighing principle of said weighing cells (15) is that either the supporting plate (9) of the phial (13) concerned is lowered with the weighing cell (15) in a constant position or the weighing cell (15) comprises a lifting device by means of which the phial (13) can be briefly raised. It is thus possible, together with fast measurement processes, to determine the mass of the drying substance virtually continuously without disturbing the drying process.

IPC 1-7
F26B 5/06; **F26B 25/22**

IPC 8 full level
F26B 5/06 (2006.01); **F26B 25/22** (2006.01)

CPC (source: EP)
F26B 5/06 (2013.01); **F26B 25/225** (2013.01)

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DE DK FR

DOCDB simple family (publication)
DE 4334902 A1 19950420; **DE 4334902 C2 19980702**; DE 59404209 D1 19971106; DK 0672234 T3 19971208; EP 0672234 A1 19950920; EP 0672234 B1 19971001; WO 9510744 A1 19950420

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