

Title (en)  
STEAM DRYER FOR COMPRESSED FIBROUS MATERIAL

Publication  
**EP 0222925 B1 19900110 (DE)**

Application  
**EP 85108114 A 19850629**

Priority  
EP 85108114 A 19850629

Abstract (en)  
[origin: US4683667A] A steam dryer for pressed fibrous material, such as sugar beet cossettes, has a pressurized, horizontally arranged pipe or drum (1) closed at both ends and provided with a diametrically opposed supply manifold and exhaust manifold piping (5, 6) for the steam. At least one heat exchanger (7) is arranged in a lengthwise half of the pressurized pipe and extends across the entire steam flow-through cross-section. Endless loop screen or mesh belts (8, 8', 8'') are arranged one above the other in the other lengthwise half of the pressurized pipe. These belts are driveable in opposite directions for conveying the material to be dried, and to transfer the material from an upper belt to a lower belt. The mesh belts (8) define separation planes between pressure and exhaust chambers (24, 25) which are alternately arranged above and below each respective mesh belt. The pressure chambers (24) comprise inflow cross-sections open to the lengthwise half with the heat exchanger (7), and the exhaust chambers (25) comprise outflow cross-section open to at least one exhaust space (26). The steam flows in an essentially closed loop cycle, except for a small portion which is extracted and replaced by fresh steam, whereby the steam passes through the heat exchanger (7) and the separate mesh belts as it flows through this cycle.

IPC 1-7  
**F26B 17/04**

IPC 8 full level  
**F26B 17/08** (2006.01); **F26B 21/04** (2006.01)

CPC (source: EP US)  
**F26B 17/08** (2013.01 - EP US); **F26B 21/04** (2013.01 - EP US)

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