

Title (en)  
ANNULAR MACHINE FOR CONTACTING SOLID SUBSTANCES WITH GASES

Publication  
**EP 0127215 B1 19861105 (DE)**

Application  
**EP 84200594 A 19840428**

Priority  
DE 3318679 A 19830521

Abstract (en)  
[origin: EP0127215A1] 1. An annular machine for contacting solids and gases, wherein the gases are passed through a solids bed and a temperature difference exists between the gases and solids, comprising gas-permeable grates, which are supported by a carrying structure revolving on wheels and which are adapted to be lowered about a horizontal hinge at the discharge station, and inside and outside walls secured to the carrying structure, characterized in that the carrying structure consists of radially extending spokes (1), which are interconnected only on the inside by a ring structure (2), which is guided on the inside by horizontal rollers (3) on a circular track (4), the carrying structure is supported on circular rails (6, 6a) on the inside by wheels (5) mounted on the spokes (1) or on the ring structure (2), and on the outside by wheels (5a) mounted on the spokes (1), each of the gas-permeable grates (7) is mounted so that it is adapted to be lowered about a horizontal hinge (8), between two adjacent spokes (1), the free space (9) between adjacent grates (7) is covered by a cover (10), stakes (11) are mounted on the outside on the spokes (1) and on the inside on the spokes (1) or the ring structure (2), and the side walls (12, 12a) are secured to the stakes (11, 11a).

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IPC 8 full level  
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**C22B 1/26** (2013.01); **F27B 9/16** (2013.01); **F27B 21/06** (2013.01); **F27D 15/0273** (2013.01)

Cited by  
CN101825398A; CN102997690A; CN105674754A; CN104910924A; CN102494541A; CN103471399A; CN107429974A; KR20170138524A; RU2703760C2; WO2009030178A1; WO2010091630A1; EP3081655A1; US10563921B2

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