

Title (en)

Process and apparatus for heating goods by a heated gas

Title (de)

Verfahren und Vorrichtung zum Behandeln von Gütern mittels eines erwärmten Gases

Title (fr)

Procédé et dispositif pour traiter des objets par un gaz chauffé

Publication

EP 0971191 A3 20011212 (DE)

Application

EP 99111709 A 19990617

Priority

- DE 19830664 A 19980709
- DE 19918102 A 19990422

Abstract (en)

[origin: EP0971191A2] To treat a material with a heated gas, the heated gas is mixed with an added gas at the point inlet. Part of the heated gas is returned as the added gas for mixing, from the zone behind the fan blower in the gas flow direction. The mixing of the heated and the added gas is spread vertically after the point inlet. The cooler gas is drawn wholly from the recirculating air. The heated gas is steam or the burner gas is at a gas or oil burner. Part of the drying air as a mixing gas is taken from the pressure chamber back into the suction chamber, to be mixed with the heated gas to be fed to the recirculating air. The warmed gas is 160-220 degrees C, the cooler gas is 80-150 degrees C and the heated gas is 2000 degrees C. The volume of the mixing gas is set to give a temperature of the mixture of heated and added gases of 300-500 degrees C (350-450 degrees C). The warmed gas fed back for mixing comprises 7-25% (10-20%) of the heated gas. An Independent claim is also included for an assembly with a mixing station (56,57) near the point inlet (53) for the heated gas. A mixing gas feed channel connects the pressure side of the fan (55) with the mixing station (56,57).

IPC 1-7

F26B 23/02

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [XY] US 2541332 A 19510213 - BOWEN CAMPBELL
- [Y] GB 1403227 A 19750828 - KROENERT MAX MASCHF
- [X] US 3057611 A 19621009 - BJERKAN THEODORE J
- [A] GB 1479552 A 19770713 - CLAAS MASCHF GMBH GEB
- [A] US 4147115 A 19790403 - LEPPERT ALFRED M
- [A] FR 648100 A 19281205 - KRANTZ SHONE H
- [A] FR 1471324 A 19670303
- [A] FR 2514118 A1 19830408 - ARNAL LOUIS [FR]
- [A] CH 99095 A 19230501 - SCHERHAG ANDREAS [DE]
- [A] DE 4405819 A1 19950810 - BAUMKOETTER MANFRED [DE]
- [A] GB 1583199 A 19810121 - WHITELEY LTD E GORDON

Cited by

CN1316221C; CN100343608C; CN109539250A; CN109225775A

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