Title (en)
CONTROL SYSTEM FOR A COUNTER-CURRENT OPERATED TUNNEL FURNACE

Publication
EP 0348603 A3 19920102 (DE)

Application
EP 89105526 A 19890329

Priority
DE 3821858 A 19880629

Abstract (en)
[origin: EP0348603A2] Control system for a countercurrent-operated tunnel furnace with smoke-gas control by vacuum in the heating zone and with an upper and a lower temperature limitation carrying out the control of the smoke-gas line, furthermore with a combustion zone regulated as a function of temperature, with rapid cooling regulated as a function of temperature and located at the start of the cooling zone, and with direct suction regulated as a function of temperature and an inflow-air fan regulated as a function of pressure and located at the end of the cooling zone, wherein, according to the invention, when an upper or a lower limit value of the temperature is reached at a point of the cooling zone between the rapid cooling (8) and first direct suction (9), the desired pressure value of the inflow-air fan (11) is adjusted upwards or downwards and thus ensures a variation of the pressure gradient in the furnace, by means of which the control of the smoke-gas fan is influenced. <IMAGE>

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F27D 19/00; F27B 9/40

IPC 8 full level
F27B 9/40 (2006.01); **F27D 19/00** (2006.01); F27B 9/12 (2006.01); F27B 9/30 (2006.01)

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Citation (search report)
- [A] US 3142884 A 19640804 - CROSS OWEN H
- [A] FR 2251790 A1 19750613 - LEISENBERG MANFRED [DE]
- [A] FR 1517633 A 19680315 - KELLER OFENBAU G M B H

Cited by
CN105202912A; EP0690280A1; US5613847A; DE4434780C1; FR2725266A1; WO2007085317A1

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