

Title (en)

Apparatus for hardening sand cores

Title (de)

Einrichtung zum Aushärten von Giesserei-Kernen

Title (fr)

Dispositif pour durcir les noyaux en sable

Publication

EP 0881014 B1 20011004 (DE)

Application

EP 97108678 A 19970530

Priority

- EP 97108678 A 19970530
- CZ 165497 A 19970528
- US 86391397 A 19970527

Abstract (en)

[origin: EP0881014A1] Foundry sand core hardening equipment includes a catalyst vapour/carrier gas mixing stage (1) which is connected via a programme controlled valve (2), a pump (3) and a flowmeter (4) to a catalyst supply container (5). A programme controlled compressed air source (6) is followed by the core-making mould in which the core is exposed to a catalyst enriched gas stream and then optionally a compressed air stream. The novelty is that the valve (2) in the delivery line (7) of the supply container (5) is periodically connected to the return line (8) to the supply container (5) for pressure equalisation in the feed system. Preferably, the mixing stage (1) includes an evaporator block (9) of nickel plated, iron oxide-enriched, porous silicon carbide, aluminium oxide, zirconium oxide or zirconium carbide ceramic, fitted with a permanent magnet (14).

IPC 1-7

B22C 9/12

IPC 8 full level

B22C 9/12 (2006.01); **B22C 13/12** (2006.01)

CPC (source: EP US)

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Cited by

EP1375031A1; DE10231883A1; DE10231883B4; WO03106072A1; EP2848332A1

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