

Title (en)

METHOD FOR HARDENING SHAPED ARTICLES, ESPECIALLY CASTING MOULDS AND CORES MADE OF MOULDING SAND

Publication

EP 0379741 B1 19911106 (DE)

Application

EP 89200139 A 19890124

Priority

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Abstract (en)

[origin: EP0379741A1] For hardening shaped articles, especially casting moulds and cores made of moulding sand, the method employed is one in which a catalyst/air mixture is passed through a moulding compound (1), to which a curing binder has been added, and the gas mixture escaping from the mould is passed through an adsorption apparatus (16, 17) which separates the catalyst from the air stream. For recovery and reuse of the catalyst, the gas mixture escaping from the mould is passed in a cyclical sequence through two sorption columns (16, 17) arranged in series, until the sorbent of the first sorption column (16) is saturated, and the fresh air fed to the mould simultaneously flows through a sorption column (13) saturated in a previous cycle. For this purpose, the sorption columns are interchanged, with the result that, in a following cycle, the gas mixture escaping from the mould is passed first of all through the second sorption column connected downstream in the preceding cycle, and then through a sorption column desorbed in a preceding cycle. <IMAGE>

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CPC (source: EP)

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