

Title (en)
SHELL MOLD SINTERING METHOD AND APPARATUS

Title (de)
VERFAHREN UND VORRICHTUNG ZUM SINTERN EINER SCHALENFORM

Title (fr)
PROCÉDÉ ET APPAREIL DE FRITTAGE DE MOULE-CARAPACE

Publication
EP 3357602 A4 20190410 (EN)

Application
EP 16905240 A 20160831

Priority
• CN 201610411520 A 20160612
• CN 2016097555 W 20160831

Abstract (en)
[origin: EP3357602A1] A shell mold sintering method, comprising the following steps: S1. producing a shell mold, wherein carbon powder needs to be added during a shell mold production process; S2. dewaxing the produced shell mold, and then placing the mold into a sintering apparatus while ensuring that there is adequate oxygen content in a sintering furnace and keeping the temperature in the sintering furnace between 600#-800#, until residual wax in the shell mold is completely burned off; S3. reducing oxygen content in the sintering furnace, and increasing the temperature until a sintering temperature of the shell mold is reached; S4. in said low-oxygen or anaerobic environment, keeping the temperature within the sintering furnace at the sintering temperature of the shell mold, until sintering of the shell mold is completed. A shell mold sintering apparatus, comprising: a shell mold placement platform (1), a heating apparatus (2), an air-blowing apparatus (3), an exhaust flue (4), a control system (5), a sintering chamber (6) and a closure door (7); the control system controls the heating apparatus, the air-blowing apparatus and the exhaust flue on the basis of said shell mold sintering method so as to implement shell mold sintering operations. Using the sintering method and apparatus may improve stability of quality and production efficiency, while reducing production cost.

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Citation (search report)
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