

Title (en)

Spinning bath and method for solidifying a moulded part

Title (de)

Spinnbad und Verfahren zur Verfestigung eines Formkörpers

Title (fr)

Bain de filage et procédé de renforcement d'un corps de formage

Publication

EP 2719801 A1 20140416 (DE)

Application

EP 12187870 A 20121010

Priority

EP 12187870 A 20121010

Abstract (en)

Coagulation bath comprises a coagulation liquid inlet, which is arranged below the coagulation liquid level of the coagulation bath. Independent claims are also included for: (1) a coagulation bath device comprising at least two coagulation liquid containers with a first liquid container having a first coagulation liquid and a second liquid container having a second coagulation liquid, and a molded body-bundling device for conducting molded body from the first liquid container into the second liquid container, where the first coagulation liquid has a different concentration of coagulant and/or a different temperature than the second coagulation liquid; (2) solidifying the molded body, comprising passing the fluid molded body into the coagulation bath with the coagulation liquid, and streaming the fluid molded body, which is present in the coagulation bath, with the coagulation liquid, which is supplied into the coagulation bath, for exchanging solvent and non-solvent between the fluid molded body and the coagulation bath, or passing the fluid molded body into the coagulation bath with the liquid container having the coagulation liquid, and predetermining the level of the coagulation liquid through a liquid level regulator, which is present outside the liquid container; and (3) solidifying molded body in the coagulation bath device with at least two mutually separate liquid containers, comprising partially solidifying molded body in a first liquid container, passing into a second liquid container, after removing from the first liquid container via the bundling device, and additionally washing and solidifying the molded body in the second liquid container.

Abstract (de)

Die Erfindung betrifft ein Koagulationsbad mit einem Koagulationsflüssigkeitszulauf (4), wobei der Koagulationsflüssigkeitszulauf (4) eine oder mehrere Mündungen (6) hat, welche unterhalb des Koagulationsflüssigkeitsniveaus (3) des Koagulationsbads liegen; insbesondere ein Spinnbadsystem mit einem Koagulationsflüssigkeitszulauf (4) und einem Eintrittsbereich für Spinnfäden, welche in dem Spinnbad verfestigt werden, wobei der Eintrittsbereich an einer Position vorgesehen ist, an der bei mit Koagulationsflüssigkeit befülltem Spinnbad die Flüssigkeitsoberfläche der Koagulationsflüssigkeit ist, dadurch gekennzeichnet, dass der Koagulationsflüssigkeitszulauf (4) eine oder mehrere Mündungen (6) hat, welche unterhalb des Eintrittsbereichs liegen und auf in das Spinnbad eingebrachte Spinnfäden gerichtet sind, sodass die Spinnfäden in Betrieb mit frischer Koagulationsflüssigkeit angeströmt werden, sowie optional einen Flüssigkeitsfüllstandsregler (11) und gegebenenfalls weiteren Wannen mit unterschiedlicher Koagulationsflüssigkeitszusammensetzung und Verfahren zum Spinnen von Fäden in einem Spinnbad.

IPC 8 full level

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