

Title (en)

Method and apparatus for the production of a particle based element

Title (de)

Verfahren und Vorrichtung zur Herstellung eines Elements auf Teilchenbasis

Title (fr)

Procédé et appareil pour la production d'un élément de type particule

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Application

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Abstract (en)

The present invention relates to a method for the production of a particle based element, wherein a particle mass 1 is arranged for further processing, and a liquid is injected in between the particles of the particle mass 1. According to the invention, the liquid comprises water and a surface tension reducing component, to facilitate the distribution of the liquid within the particle mass 1. The present invention further relates to an apparatus for the production of a particle based element, comprising an injection means 3,11,15 which is adapted to introduce a liquid in between the particles of a particle mass 1. According to the invention, the injection means 3,11,15 is adapted to introduce the liquid at a discrete location inside the particle mass 1, wherein the liquid comprises water and a surface tension reducing component to facilitate the distribution of the liquid within the particle mass. Further, the present invention relates to the use of a liquid comprising water and a surface tension reducing component to locally alter the compressibility of a particle mass 1.

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- [XY] JP S63303703 A 19881212 - DAI ICHI KOGYO SEIYAKU CO LTD
- [XY] WO 9205021 A1 19920402 - DJERNAES SVEND ERIK [DK], et al
- [Y] CH 551276 A 19740715 - HARDER PAUL
- [Y] DE 19840818 A1 20000309 - KVAERNER PANEL SYS GMBH [DE]
- [A] JP S5749550 A 19820323 - DAIKEN TRADE & INDUSTRY
- [A] US 4221950 A 19800909 - GRETEN BERNDT [DE], et al
- [A] GB 1127321 A 19680918 - BAKELITE XYLONITE LTD

Cited by

EP3470192A1; WO2019076545A1; EP2789438A1; EP3470191A1; CN111225778A; CN111225777A; RU2765816C2; WO2014166840A1; WO2019076556A1

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