

Title (en)
PLANT MOLDING PROCESS AND EQUIPMENT

Title (de)
ANLAGENFORMVERFAHREN UND VORRICHTUNG DAMIT

Title (fr)
PROCÉDÉ ET ÉQUIPEMENT DE MOULAGE DE PLANTES

Publication
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Application
EP 17870641 A 20171124

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Abstract (en)
[origin: EP3702530A1] The present invention relates to a plant molding process and device which the process includes: forming a pulp enveloping layer of molding products by dewatering paper serous fluid; forming a plant pulp layer of molding products by dewatering plant serous fluid; laminating the pulp enveloping layer and the plant pulp layer and processing non-fibrous material of the plant pulp layer to make it migrate toward the pulp envelope layer thereby combining them together. The plant molding device includes a vessel for containing slurry, a mold unit connected to the vessel by a transmission line and realized product transmission by a guiding device. This process can use different components of plants to help shape and improve strength, and to achieve 99% plant material utilization rate, energy conservation and environmental protection. The device is of intelligent operation, low manual intervention, low cost, high production efficiency and product yield.

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CPC (source: CN EP US)
D21J 3/00 (2013.01 - CN EP US); **D21J 7/00** (2013.01 - EP)

Citation (search report)
• [Y] EP 1235462 A1 20020828 - MITSUBISHI ELECTRIC CORP [JP], et al
• [Y] US 6086720 A 20000711 - BODARY JOSEPH A [US], et al
• [A] WO 2017165986 A1 20171005 - DELUXE ENV TECH (SHANGHAI) CO LTD [CN]
• [A] WO 2017149408 A1 20170908 - STORA ENSO OYJ [FI]
• See references of WO 2019080242A1

Designated contracting state (EPC)
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