Title (en)
ELEMENT MADE OF COMPOSITE MATERIAL, PLANT AND METHOD TO MAKE SAID ELEMENT

Title (de)
AUS VERBUNDSSTOFFMATERIAL HERGESTELLTES ELEMENT, ANLAGE UND VERFAHREN ZUR HERSTELLUNG DES BESAGTEN ELEMENTS

Title (fr)
ÉLÉMENT FAIT DE MATIÈRE COMPOSITE, INSTALLATION ET PROCÉDÉ POUR FABRIQUER CET ÉLÉMENT

Publication
EP 2550143 A1 20130130 (EN)

Application
EP 11716029 A 20110315

Priority
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- IT UD20100054 A 20100322
- IB 2011000545 W 20110315

Abstract (en)
[origin: WO2011117699A1] Element made of composite material (10), plant (11) to produce the element (10) and relative method, in which at least a mixing station (13) is provided in which a first plastic component and a second component are mixed together, and at least a station for extrusion and drawing passage through a draw-plate (15), in which said mixed first and second components are extruded and drawn in order to obtain the element (10) having a shaped cross section. The plant (1 1) comprises at least a dispenser member (32) to dispense a chemical expanding agent in powdered form inside the mixture, in order to determine a closed-cell expansion of the material and a porous internal conformation of the element (10). The element (10) thus obtainable is a composite mono-material which comprises an internal core having a form and cross section shaped in a desired manner and a closed-cell porous conformation, made by means of expansion, and an external covering part or surface having a surface hardness and specific weight higher than the value of hardness and specific weight of the internal core.

IPC 8 full level
B29C 44/12 (2006.01); **B29C 44/22** (2006.01); **B29C 44/50** (2006.01)

CPC (source: EP)
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