

Title (en)  
Modular dowel assembly for fixing a lining element to a panel of an expanded plastic material and structural element incorporating said assembly

Title (de)  
Modulares Dübelsystem zur Befestigung eines Verkleidungselementes an einer Kunststoffschäumplatte und Konstruktionselement mit diesem System

Title (fr)  
Assemblage à cheville modulaire pour fixer un élément de revêtement sur un panneau en matière plastique expansée et pièce de structure comprenant ledit assemblage

Publication  
**EP 0693597 B1 20031217 (EN)**

Application  
**EP 94111124 A 19940718**

Priority  
EP 94111124 A 19940718

Abstract (en)  
[origin: EP0693597A1] A sectional nog structure for fastening a covering element to a foamed plastic slab (5, 6, 35, 39, 49, 54) comprises at least one insert (2, 3), flush-insertable in the slab (5, 6, 35, 39, 49, 54) and associated with a tierod (4), having a base (10) accessible from the outside of the slab and constituting respective means for fastening to the slab (5, 6, 35, 39, 49, 54) the chosen covering element. Advantageously, this sectional nog structure allows to manufacture composite and modular construction elements, such as for example lost formworks and panels incorporating at least one foamed plastic slab and being able to support any covering element. <MATH>

IPC 1-7  
**E04B 2/30**

IPC 8 full level  
**E04B 2/86** (2006.01); **E04C 2/06** (2006.01); **E04C 2/288** (2006.01); **E04D 3/36** (2006.01)

CPC (source: EP)  
**E04B 2/8647** (2013.01); **E04C 2/06** (2013.01); **E04C 2/288** (2013.01); **E04D 3/3601** (2013.01)

Cited by  
GR990100402A; CN104746769A; EP2706165A1; NL2009420C2; AT15315U1; CN112313053A; DE10122410A1; FR3031532A1; EP3369871A1; IT201700023747A1; DE102010045724A1; US6272749B1; WO0183178A1; WO2017194543A1; WO0017461A1

Designated contracting state (EPC)  
AT CH DE FR IT LI

DOCDB simple family (publication)  
**EP 0693597 A1 19960124; EP 0693597 B1 20031217**; AT E256798 T1 20040115; DE 69433423 D1 20040129; DE 69433423 T2 20041021

DOCDB simple family (application)  
**EP 94111124 A 19940718**; AT 94111124 T 19940718; DE 69433423 T 19940718