

Title (en)  
PLACING FILAMENTS WITHIN EXTRUDED HYDRAULICALLY SETTABLE COMPOSITIONS

Title (de)  
PLAZIEREN VON FÄDEN INNERHALB EXTRUDIERTER HYDRAULISCH AUSHÄRTBARER VERBINDUNGEN

Title (fr)  
INTRODUCTION DE FILAMENTS DANS DES COMPOSITONS EXTRUDEES DURCISSANT A L'EAU

Publication  
**EP 0788422 A4 19980401 (EN)**

Application  
**EP 95932495 A 19950912**

Priority  
• US 9511582 W 19950912  
• US 31891394 A 19941004  
• US 32199294 A 19941006

Abstract (en)  
[origin: WO9610477A1] Methods and apparatus (50) for continuously extruding a hydraulically settable mixture (52) and simultaneously placing continuous filaments (64) within the extruding mixture (52) to yield articles having a filament-reinforced, hydraulically settable matrix. The filaments (64) can be placed within the mixtures (52) in a parallel configuration, a helical configuration, or combinations thereof in order to yield an article having the desired properties of, e.g., tensile strength, flexural strength, hoop strength, burst strength, toughness, and elongation ability. The desired properties of the hydraulically settable mixture (52), as well as of the cured hydraulically settable matrix of the hardened article, may also be adjusted by including varying amounts and types of aggregates, discontinuous fibers, binders, rheology-modifying agents, dispersants, or other admixtures within the hydraulically settable mixture (52). Optimizing the particle packing density while including a deficiency of water yields a hydraulically settable mixture (52) which will flow when an extrusion pressure is applied but be form stable upon being extruded.

IPC 1-7  
**B29C 47/12**

IPC 8 full level  
**B28B 3/20** (2006.01); **B28B 3/26** (2006.01); **B28B 21/56** (2006.01); **B28B 21/64** (2006.01); **B29C 48/06** (2019.01); **B29C 48/12** (2019.01); **B29C 48/15** (2019.01); **B29C 70/50** (2006.01); **B05C 5/02** (2006.01); **B29C 48/07** (2019.01); **B29C 48/09** (2019.01); **B29C 48/11** (2019.01); **B29C 48/13** (2019.01); **B29C 48/16** (2019.01); **B29C 48/21** (2019.01); **B29C 53/58** (2006.01)

CPC (source: EP KR)  
**B05C 5/0245** (2013.01 - KR); **B28B 3/2645** (2013.01 - EP KR); **B28B 21/64** (2013.01 - EP KR); **B29C 48/06** (2019.02 - EP); **B29C 48/07** (2019.02 - KR); **B29C 48/09** (2019.02 - KR); **B29C 48/11** (2019.02 - KR); **B29C 48/12** (2019.02 - EP); **B29C 48/15** (2019.02 - EP); **B29C 53/58** (2013.01 - KR); **B29C 70/50** (2013.01 - EP); **C04B 28/02** (2013.01 - EP KR); **C04B 28/04** (2013.01 - EP); **B05C 5/0245** (2013.01 - EP); **B29C 48/0018** (2019.02 - EP); **B29C 48/0022** (2019.02 - EP); **B29C 48/07** (2019.02 - EP); **B29C 48/09** (2019.02 - EP); **B29C 48/11** (2019.02 - EP); **B29C 48/13** (2019.02 - EP); **B29C 48/16** (2019.02 - EP); **B29C 48/21** (2019.02 - EP); **B29C 53/58** (2013.01 - EP); **B29K 2105/101** (2013.01 - EP); **B29L 2023/00** (2013.01 - EP); **B65D 2565/385** (2013.01 - EP); **C04B 2111/00129** (2013.01 - EP KR); **Y02W 30/91** (2015.05 - EP)

C-Set (source: EP)  
1. **C04B 28/04 + C04B 14/06 + C04B 14/38 + C04B 16/06 + C04B 18/24 + C04B 20/008 + C04B 24/383 + C04B 40/0028**  
2. **C04B 28/02 + C04B 14/00 + C04B 14/38 + C04B 16/06 + C04B 18/24 + C04B 40/0028 + C04B 2103/0079**

Citation (search report)  
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• [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 311 (M - 851) 17 July 1989 (1989-07-17)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 529 (M - 1332) 29 October 1992 (1992-10-29)  
• See also references of WO 9610477A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9610477 A1 19960411**; AU 3552495 A 19960426; AU 704741 B2 19990506; CA 2201605 A1 19960411; EP 0788422 A1 19970813; EP 0788422 A4 19980401; JP H10506854 A 19980707; KR 970706116 A 19971103; NZ 293157 A 19990225; PH 31776 A 19990127; RU 2157757 C2 20001020

DOCDB simple family (application)  
**US 9511582 W 19950912**; AU 3552495 A 19950912; CA 2201605 A 19950912; EP 95932495 A 19950912; JP 51182196 A 19950912; KR 19977002151 A 19970402; NZ 29315795 A 19950912; PH 51420 A 19951003; RU 97106835 A 19950912