

Title (en)  
Elongate retaining element

Title (de)  
Verlängertes Halteelement

Title (fr)  
Élément allongé de retenue

Publication  
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Application  
**EP 02075499 A 20020205**

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- EP 01204372 A 20011116

Abstract (en)  
[origin: EP1236840A1] The invention relates to an elongate retaining element for building sheets, having, as seen in cross section perpendicular to its direction of elongation, a head part (1) for engaging at least one said building sheets, a base part (3) for mounting the elongate retaining element on a support structure, and a connecting flange (2) extending upwardly from said base (3) and joining said head part (1) to said base (3), wherein said elongate retaining element is made from a solid thermoplastic material and having a metallic reinforcement core (4) that is essentially fully embedded in said solid thermoplastic material. <IMAGE>

IPC 8 full level  
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Citation (examination)  

- US 3922828 A 19751202 - PATTON DAVID B
- US 4337606 A 19820706 - REUSSER HANS E
- GB 2190937 A 19871202 - CROZIER CONSTRUCTION CO LIMITE

Cited by  
WO2005038164A1; EP1452660A1; EA008991B1; CN111255100A; GB2398804A; GB2398804B; EP2369089A1; FR2849884A1;  
WO2005040519A1; EP1767718A1; DE202011001363U1; US7603825B2; WO2005085547A3; WO2004022877A1; US7707791B2; US8061100B2

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