

Title (en)
Fastening element and its use

Title (de)
Befestigungselement und seine Verwendung

Title (fr)
Élément de fixation et son utilisation

Publication
EP 0931892 A3 19991020 (DE)

Application
EP 99100925 A 19990120

Priority
DE 19802063 A 19980121

Abstract (en)
[origin: EP0931892A2] The fastener has flat plate head (1), an opening for receiving a fastener bolt, and at least one vertical plate (5) extending in a radial direction from the rear side (3) of the fastener head in a plane at right angles to the head. An Independent claim is also included for the use of the fasteners for securing insulation material to preferably vertical building surfaces.

IPC 1-7
E04F 13/08

IPC 8 full level
E04F 13/08 (2006.01)

CPC (source: EP)
E04B 1/7633 (2013.01); **E04F 13/0835** (2013.01)

Citation (search report)

- [XAY] US 4803823 A 19890214 - STENSON JOHN F [US]
- [YA] DE 3321623 A1 19840816 - ANDRIS RAIMUND
- [A] US 2201129 A 19400514 - JOSEPH WEILAND
- [A] DE 1955200 A1 19710513 - DOSS HANSJUERGEN

Cited by
EP2840201A1

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

DOCDB simple family (publication)
EP 0931892 A2 19990728; EP 0931892 A3 19991020; EP 0931892 B1 20041103; AT E281575 T1 20041115; DE 19802063 A1 19990722; DE 59910958 D1 20041209; DK 0931892 T3 20050214; ES 2232036 T3 20050516; PT 931892 E 20050331

DOCDB simple family (application)
EP 99100925 A 19990120; AT 99100925 T 19990120; DE 19802063 A 19980121; DE 59910958 T 19990120; DK 99100925 T 19990120; ES 99100925 T 19990120; PT 99100925 T 19990120