

Title (en)

Synthetic resin surface fastener including integrally molded hooks.

Title (de)

Flächenhaftverschluss aus Kunststoff mit klettenartigen Elementen, die einstückig mit dem Trägerteil gegossen sind.

Title (fr)

Fermeture du type à éléments d'accrochage réalisée en matière synthétique et pourvue de crochets venus d'une pièce par moulage avec le support.

Publication

EP 0464754 A1 19920108 (EN)

Application

EP 91110894 A 19910701

Priority

JP 7099090 U 19900703

Abstract (en)

A surface fastener member comprises a base (11) and a plurality of hook elements (15) which are integrally formed by extrusion or injection molding. The hook elements (15) of the surface fastener member grip with a companion pile-like surface fastener member carrying an interior finish material so as to fasten the interior finish material to an automobile ceiling, for example. <IMAGE>

IPC 1-7

A44B 18/00

IPC 8 full level

A44B 18/00 (2006.01)

CPC (source: EP KR)

A44B 18/00 (2013.01 - KR); **A44B 18/0061** (2013.01 - EP)

Citation (search report)

- [A] US 3020613 A 19620213 - MORIN LOUIS H
- [A] US 4001366 A 19770104 - BRUMLIK GEORGE C
- [A] US 4672722 A 19870616 - MALAMED JOSEF [US]

Cited by

US8281463B2; US5586595A; EP0612493A1; US5625930A; EP0657130A1; US5615461A; FR2868135A1; EP0577697A4; EP0567103A1; US5361462A; FR2889037A1; EP1749456A1; US6640348B1; US6543099B1; US6671935B2; GB2373544A; GB2373544B; US5900350A; DE4229062A1; US5457856A; US5945193A; EP0499461A1; EP0868127A4; US10624776B2; WO0143684A1; WO2005096864A1; US6960314B2; US6276032B1; US7516524B2; US7841052B2; US10245170B2; EP0586962B1

Designated contracting state (EPC)

DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0464754 A1 19920108; EP 0464754 B1 19941102; CA 2045993 A1 19920104; CA 2045993 C 20030708; DE 69104915 D1 19941208; DE 69104915 T2 19950608; ES 2064009 T3 19950116; JP 2545058 Y2 19970825; JP H0431513 U 19920313; KR 920001895 U 19920224; KR 940001871 Y1 19940326

DOCDB simple family (application)

EP 91110894 A 19910701; CA 2045993 A 19910628; DE 69104915 T 19910701; ES 91110894 T 19910701; JP 7099090 U 19900703; KR 910010047 U 19910702