

Title (en)

Floor mat with rigid rails joined by living hinges.

Title (de)

Fussmatte mit elastisch verbundenen steifen Platten.

Title (fr)

Paillasson à panneaux rigides articulés élastiquement.

Publication

**EP 0421258 A1 19910410 (EN)**

Application

**EP 90118460 A 19900926**

Priority

US 41565289 A 19891002

Abstract (en)

A floor mat is composed of a multiplicity of rigid elongated rails (10) arranged parallel to each other, each rail having a body portion (12) adapted to receive a tread member (13) and a coupling portion (14) by which it is joined to an adjacent rail. The body and coupling portions are found by extrusion of a rigid high-impact strength thermoplastic polymeric material and are joined by a living hinge in the form of a thin strand (38) of a highly flexible thermoplastic elastomer formed by coextrusion with the body and coupling portions and constituting a distinct bending line between the body and the coupling portion. Each rail includes at least two ribs (34) along its underside laterally spaced apart from each other and adapted to support the rail on a surface, each rib being formed by coextrusion with the body and coupling portions and the living hinge of a soft, compressible thermoplastic polymeric material and serving as a cushion and an anti-slip element of the mat. A tread surface (32) of the rail body portion on either side of the tread member has myriad protuberances (40 or 46) imparting a non-slip characteristic that is highly effective in all directions.

IPC 1-7

**A47L 23/26**

IPC 8 full level

**A47L 23/26** (2006.01)

CPC (source: EP)

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Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 184 (C-294)(1907) 30 July 85, & JP-A-60 052681 (FUSOU GOUSEI KK) 25 March 85,

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DOCDB simple family (application)

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