

Title (en)
LINEAR GUIDING UNIT

Title (de)
LINEARFÜHRUNGSEINHEIT

Title (fr)
UNITE DE GUIDAGE LINEAIRE

Publication
EP 1552171 A1 20050713 (DE)

Application
EP 03753559 A 20031015

Priority
• DE 10248236 A 20021016
• EP 0311422 W 20031015

Abstract (en)
[origin: WO2004036072A1] Disclosed is a linear guiding unit comprising a guiding carriage (3) that can be moved in the longitudinal direction upon a guide rail (1), is mounted via rolling members (2), and is provided with a support body (4) and end caps (5), the front side of which is disposed on the support body (4). Said linear guiding unit also comprises at least one continuous rolling member channel (6) which is provided with a support channel (7) for supporting rolling members (2), a recirculation channel (8) for returning rolling members (2), and two redirecting channels (9) that connect the support channel (7) and the recirculation channel (8) to each other in a continuous manner and are delimited by the end caps (5). A support rail (10) that is arranged along the support channel (7) and rests upon the support body (4) encompasses a running track (16) for the rolling members (2), which delimits the support channel (7), a support part (11), and a saddle part (12). Said support part (11) is accommodated on the support body (4) while the saddle part (12), a saddle surface (17) of which rests in a tiltable manner on the support part (11), is provided with the running track (16).

IPC 1-7
F16C 29/06

IPC 8 full level
F16C 29/06 (2006.01); **F16C 29/00** (2006.01); **F16C 33/60** (2006.01)

CPC (source: EP KR US)
F16C 29/001 (2013.01 - EP US); **F16C 29/06** (2013.01 - KR); **F16C 29/0604** (2013.01 - EP US); **F16C 29/0661** (2013.01 - EP US);
F16C 33/60 (2013.01 - EP US)

Citation (search report)
See references of WO 2004036072A1

Designated contracting state (EPC)
CH DE ES FR IT LI

DOCDB simple family (publication)
WO 2004036072 A1 20040429; AU 2003271729 A1 20040504; CN 100402876 C 20080716; CN 1726351 A 20060125;
DE 10248236 A1 20040429; EP 1552171 A1 20050713; KR 20050065599 A 20050629; US 2006140517 A1 20060629; US 7393139 B2 20080701

DOCDB simple family (application)
EP 0311422 W 20031015; AU 2003271729 A 20031015; CN 200380106287 A 20031015; DE 10248236 A 20021016; EP 03753559 A 20031015;
KR 20057006519 A 20050415; US 53369205 A 20051028