

Title (en)  
Pumping unit for a fuel tank

Title (de)  
Fördereinheit für einen Kraftstoffbehälter

Title (fr)  
Module de pompage pour réservoir de carburant

Publication  
**EP 1502795 A3 20050330 (DE)**

Application  
**EP 04103443 A 20040720**

Priority  
DE 10335045 A 20030801

Abstract (en)  
[origin: EP1502795A2] The conveyor has a surge tank, a flange, a spring tensioning the surge tank against the fuel tank base, and an element, e.g. a bead to guide the surge tank relative to the flange. The guide element (6) has devices to support the spring (7), and supports itself on the surge tank (3) or the flange (4). The support devices are formed by a ring element, pref. a self-locking clamp plate, which is of metal or plastic.

IPC 1-7  
**B60K 15/077**; **F02M 37/10**

IPC 8 full level  
**F02M 37/10** (2006.01)

CPC (source: EP)  
**F02M 37/103** (2013.01); **F02M 37/106** (2013.01)

Citation (search report)  
• [X] GB 2345045 A 20000628 - FORD MOTOR CO [US]  
• [X] DE 10047938 A1 20010419 - TESMA MOTOREN GETRIEBETECHNIK [AT]  
• [A] US 6260543 B1 20010717 - CHIH MING-NIU [US]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 2 2 April 2002 (2002-04-02)

Cited by  
DE102006017471A1; DE102006017471B4; US7806108B2; WO2007036484A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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