

Title (en)
Tube pump

Title (de)
Schlauchpumpe

Title (fr)
Pompe à tube

Publication
EP 2444669 A1 20120425 (EN)

Application
EP 11184864 A 20111012

Priority
• JP 2010237290 A 20101022
• JP 2010237291 A 20101022

Abstract (en)
Tube pump capable of suppressing torque variation in a drive motor regardless of the rotation direction of a rotor unit and manufacturing easily and cheaply. The tube pump (1) includes a casing (2) which a liquid-flowing tube (3) is arranged; a drive motor (4) provided with a driving shaft (4a) rotatable in forward and reverse directions; a rotor body (20); roller holders (40) supported on the rotor body (20) to swing with respect to the rotor body (20); pressing rollers (50) rotatably supported on the roller holders (40) to press the tube (3) against an inner circumferential wall surface (2a) of the casing (2); and biasing units (60) biasing the roller holders (40), when swung, to be returned to a pre-swing position. The roller holders (40) are configured to swing with respect to the rotor body (20) in a direction opposite to a rotation direction of the rotor body (20).

IPC 8 full level
F04B 43/12 (2006.01); **A61M 5/142** (2006.01)

CPC (source: EP US)
F04B 43/1276 (2013.01 - EP US)

Citation (applicant)
JP H06218042 A 19940809 - TORAY INDUSTRIES

Citation (search report)
• [X] GB 2051253 A 19810114 - WATSON MARLOW LTD
• [A] DE 2539511 A1 19760325 - GERRITSEN JAN WILLEM
• [A] US 2003156957 A1 20030821 - DOMROESE MICHAEL K [US]
• [AD] JP H06218042 A 19940809 - TORAY INDUSTRIES

Cited by
CN103043231A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 11184864 A 20111012; CN 201110321990 A 20111020; US 201113278407 A 20111021