

Title (en)

MECHANISM FOR CONVERTING A LINEAR MOTION INTO AN ARCUATE MOTION, WHICH CAN BE USED IN A SCANNING DEVICE

Title (de)

MECHANISMUS ZUR UMWANDLUNG EINER LINEAREN BEWEGUNG IN EINE BOGENFÖRMIGE BEWEGUNG, DER BEI EINER ERFASSUNGSVORRICHTUNG ZUM EINSATZ KOMMEN KANN

Title (fr)

MECANISME DE CONVERSION D'UN MOUVEMENT RECTILIGNE EN UN MOUVEMENT ARCIFORME UTILISABLE DANS UN DISPOSITIF DE BALAYAGE.

Publication

**EP 1740849 A1 20070110 (FR)**

Application

**EP 05742629 A 20050317**

Priority

- FR 2005000676 W 20050317
- FR 0403524 A 20040401

Abstract (en)

[origin: WO2005098277A1] The invention relates to a mechanism for converting a linear motion into an arcuate motion, which can be used in a scanning device. The inventive mechanism comprises: a structure (35) which can move along a linear path and which can be connected to a drive device (34), a support part (39) which is mounted to the mobile structure (35) such that it can slide perpendicularly to the aforementioned linear path, at least one connecting rod (48, 49) which is articulated to (i) a fixed structure around a first axis of rotation located in a plane that is perpendicular to the linear path and (ii) the mobile structure (35) around a second axis that is parallel to the first. The arcuate movement of the support part (39) results from the sliding thereof under the action of the connecting rod (48, 49) and the translational movement produced by the mobile structure (35).

IPC 8 full level

**A61B 8/10** (2006.01); **F16H 21/44** (2006.01); **F16H 37/16** (2006.01); **G10K 11/00** (2006.01); **G10K 11/35** (2006.01); **F16H 21/36** (2006.01); **F16H 37/12** (2006.01)

CPC (source: EP US)

**A61B 8/4461** (2013.01 - EP US); **G10K 11/004** (2013.01 - EP US); **A61B 8/10** (2013.01 - EP US); **F16H 21/365** (2013.01 - EP US); **F16H 37/124** (2013.01 - EP US); **Y10T 74/18056** (2015.01 - EP US); **Y10T 74/18152** (2015.01 - EP US); **Y10T 74/18272** (2015.01 - EP US)

Citation (search report)

See references of WO 2005098277A1

Cited by

CN108087521A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2868496 A1 20051007**; **FR 2868496 B1 20060630**; CA 2561765 A1 20051020; EP 1740849 A1 20070110; US 2008134813 A1 20080612; WO 2005098277 A1 20051020

DOCDB simple family (application)

**FR 0403524 A 20040401**; CA 2561765 A 20050317; EP 05742629 A 20050317; FR 2005000676 W 20050317; US 54748105 A 20050317