

Title (en)
BELT DEVICE, TRANSFER DEVICE, AND IMAGE FORMING APPARATUS

Title (de)
BANDVORRICHTUNG, ÜBERTRAGUNGSVORRICHTUNG UND BILDERZEUGUNGSVORRICHTUNG

Title (fr)
DISPOSITIF À COURROIE, DISPOSITIF DE TRANSFERT ET APPAREIL DE FORMATION D'IMAGES

Publication
EP 3081992 A1 20161019 (EN)

Application
EP 16165381 A 20160414

Priority
JP 2015082222 A 20150414

Abstract (en)
A belt device includes a belt (61) and a belt alignment unit (62, 63). The belt is stretched over a plurality of support rotators. The belt alignment unit (70) is configured to restrict a range of deviation of the belt in which the belt moves in a belt width direction. The belt alignment unit (70) includes a shaft displacement member (72), a shaft holder (64), and a shaft displacement corrector (66). The shaft displacement member (72) is configured to displace a position of at least one end of a rotary shaft (63a) of at least one support rotator (63) among the plurality of support rotators (62, 63) by a movement of the belt (61) in the belt width direction. The shaft holder (64) is configured to tiltably hold the rotary shaft (63a). The shaft displacement corrector (66) is provided to the shaft holder (64). The shaft displacement corrector (66) is configured to return the position of the at least one end of the rotary shaft (63a) having been displaced by the shaft displacement member (72) to a position before the displacement. The shaft displacement corrector is positioned inside a projection area of the belt device (60) by a vertical light as viewed in an axial direction of one of the plurality of support rotators (62).

IPC 8 full level
G03G 15/16 (2006.01)

CPC (source: EP)
G03G 15/1615 (2013.01); **G03G 2215/00156** (2013.01)

Citation (applicant)
JP 2010230958 A 20101014 - FUJI XEROX CO LTD

Citation (search report)
• [XA] US 2014209437 A1 20140731 - HOZUMI YOSHIKI [JP], et al
• [XA] EP 1310835 A2 20030514 - SEIKO EPSON CORP [JP]
• [X] JP 2009186910 A 20090820 - RICOH KK
• [A] JP 2012220812 A 20121112 - SEIKO EPSON CORP

Cited by
CN107462143A; US2022019160A1; CN113946111A; US11454905B2

Designated contracting state (EPC)
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Designated extension state (EPC)
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