

Title (en)

## IMAGE FORMING APPARATUS

Publication

**EP 0429657 A4 19930120 (EN)**

Application

**EP 90907452 A 19900516**

Priority

- JP 9000619 W 19900516
- JP 12719789 A 19890519

Abstract (en)

[origin: WO9014618A1] A novel transmission gear mechanism for driving a developing device in an image forming apparatus of such a type that the developing device is brought close to or apart from a photosensitive drum while being interlocked with opening/closing action of a cover. This mechanism is composed of a first bevel gear (71) fitted on a revolving shaft (624) on the side of the photosensitive drum unit connected to the driving motor, a second bevel (72) to constantly mesh with the first bevel gear, a third bevel gear (81) fitted on the revolving shaft (635) on the side of the developing device unit, a fourth bevel gear (82) to constantly mesh with the third bevel gear, and rotative connecting means (91) for connecting the second and fourth bevel gears to each other. The rotative connecting means is provided with a connecting structure to transmit the rotation of the second bevel gear (72) to the fourth bevel gear (82) when the developing device approaches the photosensitive drum and to permit displacement of the fourth bevel gear (82) when the developing device performs the approaching/departing action.

IPC 1-7

**G03G 15/00; F16H 1/26; F16H 1/14**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 202 (P-300)14 September 1984 & JP-A-59 087 464 ( CANON K.K. )
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 188 (P-866)8 May 1989 & JP-A-01 015 765 ( CANON K.K. )
- [AD] PATENT ABSTRACTS OF JAPAN vol. 13, no. 324 (P-903)21 July 1989 & JP-A-01 092 776 ( FUJITSU ) 12 April 1989
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 16 (M-270)24 January 1984 & JP-A-58 178 038 ( MITSUI ZOSEN )
- See references of WO 9014618A1

Designated contracting state (EPC)

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