

Patent families - 7 results

#	  Title	Publication number	Publ. date	Applicant/Assignee	
1.	Image forming apparatus, and process cartridge	EP3270228	2018-01-17	 CANON	100 %
A system comprises an image forming apparatus for forming an image on a recording material and a process cartridge detachably mountable to a main assembly of the image forming apparatus. The process cartridge includes: a first unit having an image bearing member; a second unit having a developer carrying member, the second unit being movable between a contact position in which the developer carrying member contacts the image bearing member and a spaced position in which the developer carrying member is spaced from the image bearing member; a force receiving portion for receiving from the image forming apparatus a force for moving the second unit from the contact position to the spaced position; and an urging portion. The image forming apparatus includes: a mounting portion for detachably mounting the process cartridge; and an engageable member engageable with the force receiving portion, wherein the engageable member is movable between a first position for maintaining the second unit in the spaced position by engaging with the force receiving portion, a second position for permitting movement of the second unit from the spaced position to the contact position in image forming operation, and a third position for permitting the process cartridge to be mounted, by the engageable member being pressed by the urging portion to retract, when the process cartridge is mounted to the mounting portion.					
2.	Process cartridge, developer supply cartridge, and correspondent electrophotographic image forming apparatus	EP2005255	2008-12-24	 CANON	76 %
Image forming apparatus, wherein a process cartridge (7) and a developer supply cartridge (9) which is supplying developer to the process cartridge (7) , are separably mountable to and dismountable from to a main assembly (100a) of the image forming apparatus. Each of the cartridges (7, 9) comprises an opening-closing mechanism to open and close shutters (35, 95, 65, 97) for opening and closing supply and receiving openings in order to avoid leakage of developer when one of the developer supply cartridge (9) or process cartridge (7) is mounted to or dismounted from the image forming apparatus. A mechanism is provided comprising a regulating member (68) on the process cartridge (7) which blocks the movement of the shutter (65, 97) in either a closed or open position. Said regulating member (68) interacts with an engaging members on the developer supply cartridge (9) , thereby allowing to open and close the process cartridge shutter when the cartridges (7, 9) are mounted and dismounted, respectively.					
3.	Drive component, photosensitive drum unit, processing cartridge, and imaging device	WO2016/074559	2016-05-19	 APEX TECHNOLOGY  NASIDA BY SHARE  NINESTAR	74 %
A drive component (4), a photosensitive drum unit (5), a processing cartridge (1), and an imaging device. The drive component (4) comprises: a drive portion (40), and a telescopic member for controlling the drive portion (40) to axially extend or retract, and further comprises an adaptive adjustment part. The adaptive adjustment part automatically adjusts, in an installation process of the drive portion (40), whether the drive portion (40) needs to rotate around an axis of the drive portion (40). The drive component (4), the photosensitive drum unit (5), the processing cartridge (1), and the imaging device can solve the technical problem that the printing quality is poor because it cannot be ensured that an axis of a rotating component in rotation is coaxial with an axis of the drive component.					
4.	Electrophotographic process cartridge and image forming apparatus with such process cartridge	EP0586041	1994-03-09	 CANON	72 %
The present invention provides a process cartridge mountable to an image forming apparatus, comprising a frame, an image bearing member, process means acting on the image bearing member, and a gripper for gripping the process cartridge. The gripper portion is provided on said frame to be offset toward a position where the frame is subjected to a greater mounting resistance generated by engagement between the process cartridge and a member on the main body, when the process cartridge is mounted to the image forming apparatus. <IMAGE>					
5.	Driving component and processing cartridge having the driving component	WO2017/143939	2017-08-31	 ZHONGSHAN KINGWAY IMAGE TECHNOLOGY	63 %
A processing cartridge (C) removably mounted in an electronic photograph imaging device and a driving component (D0) arranged within the processing cartridge (C). The driving component (D0) comprises a power transmission apparatus (2) and an actuating rod (3) joined with each other. The power transmission apparatus (2) is fixedly mounted at one longitudinal distal extremity of a rotating element. The actuating rod (3) comprises a middle rod (30) and, arranged at either extremity of the middle rod (30), a force bearing part (31) and a lifting part (32). The lifting part (32) is joined with the power transmission apparatus (2). When an external force is applied to the actuating rod (3), the actuating rod (3) swings from a free position to a work position in the plane comprising the longitudinal direction (X) and transverse direction (Y) of the processing cartridge (C). Compared to when the force bearing part (31) is arranged at a free position, the force bearing part (31) is closer to an electrically-conductive extremity (E) of the processing cartridge (C) when arranged at a work position. The power transmission apparatus (2) obviates the need for a ball to be mounted; therefore, the stability of the processing cartridge (C) or of the rotating element during transport is ensured.					
6.	Recycling method for a developer supply container	EP1403736	2004-03-31	 CANON	57 %
A recycling method for a developer supply unit (5) for supplying a developer to developing means (1) for developing an electrostatic latent image formed on an electrophotographic photosensitive member (2), wherein the developer supply unit (5) is detachably mountable to a main assembly of an electrophotographic image forming apparatus (100) and includes a developer accommodating portion (5j) for accommodating the developer, a developer supply port (5f) for supplying the developer to the developing means (1) and a feeding member (5a) for feeding the developer to the developer supply port (5f) from the developer accommodating portion (5j), the method includes an injection step of injecting the developer through the developer supply port (5f); and driving step of driving the feeding member (5a) in a direction (A-E) for feeding the developer from the developer supply port (5f) to the developer accommodating portion (5j), by which the develop er is fed from the developer supply port (5f) to fill the developer accommodating portion (5j) with the developer.					
7.	Image forming apparatus and developer supply container removably mountable in image forming apparatus	EP1184742	2002-03-06	 CANON	54 %
A developer supply container detachably mountable to an image forming apparatus, includes a developer accommodating portion; a developer discharging portion; and a cover cover in the developer discharging portion, the cover being movable between a first position in which the cover covers the developer discharging portion and a second position in which the developer discharging position is exposed, wherein the second position is closer to the developer accommodating portion than the first position.					

