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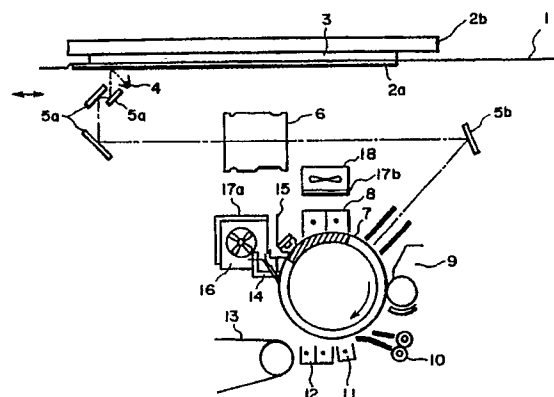
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DE FR GB IT(88) Date of deferred publication of the search report:
13.03.91 Bulletin 91/11(71) Applicant: **CANON KABUSHIKI KAISHA**
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W-8000 München 2(DE)(54) **Electrophotographic apparatus.**

(57) An electrophotographic apparatus of the type in which a photosensitive member is charged by atmospheric discharge, is equipped with an air filter including a substrate comprising at least one metal selected from the group consisting of aluminum, iron, aluminum alloy and iron alloy, and a coating layer formed on the substrate comprising an ozone remover. The substrate is effective in removing NO_x and HNO₃ and has a long life while not hindering the ozone-removing action of the ozone remover disposed thereon, whereby the apparatus can show excellent electrophotographic performances even after successive use while preventing deterioration due to ozone, NO_x and HNO₃ produced by the atmospheric discharge.

**FIG. 1****EP 0 398 262 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 9155

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | |
|--|---|--|---|---|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. Cl.5) | | |
| X | DE-A-3 026 969 (CANON) * page 39, paragraph 2 * - - - | 1,2,4,7 | G 03 G 21/00 | | |
| P,A | PATENT ABSTRACTS OF JAPAN vol. 13, no. 279 (P-891)(3627), 27 June 1989; & JP-A-168774 (FUJI XEROX) 14.03.1989 - - - | 1 | | | |
| A | PATENT ABSTRACTS OF JAPAN vol. 10, no. 120 (C-343)(2177), 6 May 1986; & JP-A-60244326 (FUJI XEROX) 04.12.1985 - - - | 1,4,5,7 | | | |
| A | US-A-4 680 040 (A.M. GOORAY et al.) * figures 3,4 * - - - | | | | |
| A | DE-A-3 433 093 (BERGWERKSVERBAND) * the whole document * - - - - - | 1,2,4,5 | | | |
| The present search report has been drawn up for all claims | | | | | |
| Place of search Berlin | | Date of completion of search 30 November 90 | Examiner HOPPE H | | |
| <table><tr><td>CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention</td><td>E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document</td></tr></table> | | | | CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention | E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document |
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