

## Title (en)

Magnetic coated carrier, two-component type developer and developing method

## Title (de)

Beschichtete magnetische Trägerteilchen, zwei-Komponententyp-Entwickler und Entwicklungsverfahren

## Title (fr)

Particules de support magnétiques revêtues, révélateur du type à deux composants et procédé de développement

## Publication

**EP 0801335 A1 19971015 (EN)**

## Application

**EP 97302356 A 19970407**

## Priority

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## Abstract (en)

A magnetic coated carrier suitable for constituting a two-component type developer for use in electrophotography is composed of magnetic coated carrier particles comprising magnetic coated carrier particles comprising magnetic carrier core particles each comprising a binder resin and metal oxide particles, and a coating layer surface-coating each carrier core particle. The metal oxide particles have been subjected to a surface lipophilicity-imparting treatment. The magnetic carrier core particles have a resistivity of at least  $1 \times 10^{10}$  ohm.cm, and the magnetic coated carrier has a resistivity of at least  $1 \times 10^{12}$  ohm.cm. The magnetic coated carrier has a particle size distribution such that (i) it has a number-average particle size  $D_n$  of 5 - 100  $\mu$ m, (ii) it satisfies a relationship of  $D_n / \sigma \geq 3.5$ , wherein  $\sigma$  denotes a standard deviation of number-basis particle size distribution of the carrier, and (iii) it contains at least 25 % by number of particles having particle sizes of at most  $D_n \times 2/3$ . <IMAGE>

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## IPC 8 full level

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## CPC (source: EP KR US)

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## Citation (search report)

- [A] EP 0662643 A2 19950712 - CANON KK [JP]
- [A] EP 0693712 A1 19960124 - CANON KK [JP]
- [A] EP 0650099 A2 19950426 - CANON KK [JP]
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- [A] EP 0704767 A1 19960403 - MITA INDUSTRIAL CO LTD [JP]
- [A] DATABASE WPI Section Ch Week 8229, Derwent World Patents Index; Class A89, AN 82-60146E, XP002035819
- [A] DATABASE WPI Section Ch Week 9342, Derwent World Patents Index; Class A89, AN 93-330706, XP002035820

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