Title (en)

AN ELECTROSTATIC SPRAYING APPARATUS UTILIZING TRIBOELECTRIFICATION

Title (de)

TRIBOELEKTRISCHE AUFLADUNG VERWENDENDE ELEKTROSTATISCHE SPRITZVORRICHTUNG

Title (fr)

APPAREIL DE PULVERISATION ELECTROSTATIQUE UTILISANT LA TRIBOELECTRIFICATION

Publication

EP 1866097 B1 20091202 (EN)

Application

EP 06706111 A 20060310

Priority

- DK 2006000140 W 20060310
- DK PA200500364 A 20050311

Abstract (en)

[origin: WO2006094511A2] An electrostatic spraying apparatus, which uses induction to charge different kinds of materials such as pesticides, paint, water or other liquids, has been developed. The electrostatic spraying system depends on a new type of spray apparatus that provides a stream of electrostatic charged droplets. The charged droplets are forced towards the target by the use of air. In the apparatus a positively or negatively charged object is placed relatively to the fluid. The charged object induces a charge in the fluid before and when the fluid reaches the droplet-forming zone. The fluid gets thereby either negatively or positively charged. The object is charged by triboelectrification. The object can be a nylon pipe. The nylon pipe gets positively charged when a cobber ring slides up and down on the nylon pipe because electrons are transferred from the nylon pipe to the copper ring.

IPC 8 full level

B05B 5/047 (2006.01)

CPC (source: EP)

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Designated contracting state (EPC)

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AL BA HR MK YU

DOCDB simple family (publication)

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