

Title (en)
Electrostatic spray process and apparatus.

Title (de)
Verfahren und Vorrichtung zur elektrostatischen Zerstäubung.

Title (fr)
Procédé et appareil de pulvérisation électrostatique.

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Application
EP 90305391 A 19900518

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Abstract (en)
An electrostatic liquid spraying apparatus having a sprayhead comprising a pair of atomising edges (12,13) extending side-by-side, liquid feed means (19) to each of the atomising edges and a plurality of field intensifying electrodes (26,27,28a,28b) extending lengthwise of the atomising edges (12,13). A pair of the electrodes (26,28a) are associated with one atomising edge (12) with one disposed on either side thereof and forwardly of the atomising edge (12). Similarly a pair of the electrodes (27,28b) are associated with the other atomising edge (13). Electric power supply means impose a potential difference between the atomising edges (12,13) and the electrodes (26,27,28a,28b). In order to achieve satisfactory spraying: a) the spacing between the atomising edges (12,13) is in the range, 20-300 mm. b) the spacing between each of the electrodes (26,27,28a,28b) and their associated atomising edges (12,13) is not less than 3 mm. and c) The measurable potential difference between the conductors through which the potential difference is imposed between the atomising edges (12,13) and the electrodes (26,27,28a,28b) is in the range 1-3 KV per mm. of the spacing of the electrodes (26,27,28a,28b) from the atomising edges (12,13). o

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• [AD] EP 0186983 B1 19890322
• [A] US 1958406 A 19340515 - DARRAH WILLIAM A

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US5927618A; CN1071144C; EP0733407A1; FR2731921A1; US5738727A; US7360724B2; US7160391B2; WO9317794A1; WO9506521A3; WO2006032018A3; WO2006044876A1; WO2006044877A3; WO2019140153A1

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