FINE PARTICLE APPLICATOR AND RELATED METHODS

Abstract: Embodiments relate to a fine particle applicator including a loading vessel, a metering roller positioned adjacent the loading vessel, a first stippling roller in contact with the metering roller, a high speed roller, positioned adjacent the metering roller such that bristles of the metering roller and bristles of the high speed roller overlap sufficient to form an interference zone, a second stippling roller, in contact with the high speed roller, a stippling shoe positioned adjacent at least the metering roller and high speed roller and a housing. At least a portion of a surface of the stippling shoe closest to at least the metering roller and high speed roller includes substantially the same curvature as the roller nearest the surface.

FIG. 1
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### A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8):** B05C 5/00 (2012.01)

According to International Patent Classification (IPC) or to both national classification and (PC)

**USPC:** 427/475

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC(8):** B05C 5/00; B05D 1/28 (2012.01)

**USPC:** 118/020, 621, 427/458, 475, 485

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

### Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Pathbase. Google Patents

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
<tr>
<td>Y</td>
<td>US 5,944,233 A (BOURNAL) 31 August 1999 (31.08.1999) entire document</td>
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<tr>
<td>Y</td>
<td>US 5,769,276 A (ALEXANDER) 23 June 1998 (23.06.1998) entire document</td>
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