EUROPEAN PATENT APPLICATION

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B 01 F 5/04, A 23 C 9/15
A 01 K 9/00, B 01 J 2/16

Improvements in or relating to a process and apparatus for spraying a powder with liquid.

The process includes entraining a powder having an average particle size in the range of 1 micron to 1.0 mm in air within a mixing vessel and spraying the entrained powder with a liquid within a spray zone in the mixing vessel. The process is used especially for a throughput rate in the range of 20 to 100 kg/hour of powder. The apparatus for carrying out the process includes a mixing vessel (2) accommodating an axially aligned venturi device (22) and a spray nozzle (18). The mixing vessel (2) may be connected to a vibratory fluidized bed chamber (28) for collecting the sprayed powder.
### DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
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<th>Relevant to claim</th>
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<td>WO-A-8 200 404 (CLAUDIUS PETERS LTD.) 1-5, 7, 12 2, paragraph 1; figure; page 4, paragraphs 2, 3</td>
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<td>A</td>
<td>US-A-3 143 428 (F.E. REIMERS et al.) 1, 5, 6, 8, 10, 13-19  Figure 1; column 1, lines 49-60; column 4, line 56 - column 5, line 5</td>
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<td>CH-A- 343 572 (PULEJO AND BOUCHER) 13  Figure 2; page 2, lines 11-19</td>
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<td>US-A-3 707 829 (SIEGEL) 13  Figure; abstract</td>
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<td>DE-B-1 276 004 (GEBRÜDER GRÜN KG) 20  Figure 1</td>
<td>B 01 F 5/20  B 05 B 7/04  B 01 F 3/12  B 01 F 5/04  A 23 C 9/15  A 01 K 9/00  B 01 J 2/16</td>
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The present search report has been drawn up for all claims.

**TECHNICAL FIELDS SEARCHED (Int. Cl. 2)**

**THE HAGUE ASH R.A.**

**ACKNOWLEDGEMENTS**

The present search report has been drawn up for all claims.

**CATEGORIES OF CITED DOCUMENTS**

- **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
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- **P**: intermediate document