

Title (en)

IMPROVEMENTS IN OR RELATING TO A PROCESS AND APPARATUS FOR SPRAYING A POWDER WITH LIQUID

Publication

EP 0122112 A3 19841121 (EN)

Application

EP 84302296 A 19840404

Priority

GB 8309673 A 19830408

Abstract (en)

[origin: EP0122112A2] 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.

IPC 1-7

B01F 5/20; **B05B 7/04**; **B01F 3/12**; **B01F 5/04**; **A23C 9/15**; **A01K 9/00**; **B01J 2/16**

IPC 8 full level

B01F 3/12 (2006.01); **B01F 5/20** (2006.01); **B01F 11/00** (2006.01); **B01J 2/16** (2006.01); **B01J 8/24** (2006.01)

CPC (source: EP)

B01F 23/50 (2022.01); **B01F 25/721** (2022.01); **B01F 31/00** (2022.01)

Citation (search report)

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- [A] US 3143428 A 19640804 - REIMERS FREDERICK E, et al
- [A] CH 343572 A 19591231 - PULEJO CARLO [CH], et al
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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0122112 A2 19841017; **EP 0122112 A3 19841121**; BR 8406515 A 19850312; ES 286707 U 19851116; ES 286707 Y 19860601; ES 531356 A0 19851001; ES 8600076 A1 19851001; FI 844836 A0 19841207; FI 844836 L 19841207; GB 8309673 D0 19830511; JP S60500995 A 19850704; NO 844791 L 19841130; WO 8404054 A1 19841025

DOCDB simple family (application)

EP 84302296 A 19840404; BR 8406515 A 19840404; ES 286707 U 19850513; ES 531356 A 19840406; FI 844836 A 19841207; GB 8309673 A 19830408; GB 8400116 W 19840404; JP 50161984 A 19840404; NO 844791 A 19841130