

Title (en)  
Filling apparatus.

Title (de)  
Füllvorrichtung.

Title (fr)  
Appareil de remplissage.

Publication  
**EP 0492088 B1 19951004 (EN)**

Application  
**EP 91118604 A 19911031**

Priority  
US 63245890 A 19901221

Abstract (en)  
[origin: EP0492088A1] An apparatus for filling finely powdered material into a long and narrow cavity or hole having a relatively small opening is provided. The apparatus features a discharge port for a particulate laden gas stream directed toward the opening of the hole to be filled but spaced apart from the opening of the cavity to be filled by a gap, so that in operation the powdered material continues across the gap and into the cavity due to its inertia while the gas escapes through the gap. <IMAGE>

IPC 1-7  
**B65B 1/16**

IPC 8 full level  
**B65B 1/30** (2006.01); **B65B 1/16** (2006.01)

CPC (source: EP KR)  
**B65B 1/16** (2013.01 - EP); **B65B 1/30** (2013.01 - KR)

Citation (examination)  
EP 0059394 A2 19820908 - KONIG GUSTAV

Cited by  
EP0612659A1; EP0718047A3; CN113171301A

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0492088 A1 19920701; EP 0492088 B1 19951004**; AR 248107 A1 19950630; AT E128684 T1 19951015; AU 645385 B2 19940113; AU 8998491 A 19920625; CA 2058061 A1 19920622; CA 2058061 C 20021217; DE 69113592 D1 19951109; DE 69113592 T2 19960530; DK 0492088 T3 19951120; ES 2080217 T3 19960201; FI 916071 A0 19911220; FI 916071 A 19920622; FI 95117 B 19950915; FI 95117 C 19951227; GR 3017652 T3 19960131; HK 1000316 A1 19980227; IE 73431 B1 19970604; IE 914491 A1 19920701; IL 99967 A0 19920818; IL 99967 A 19940530; JP 3315140 B2 20020819; JP H04327101 A 19921116; KR 100227996 B1 19991101; KR 920011530 A 19920724; NO 306937 B1 20000117; NO 915073 D0 19911220; NO 915073 L 19920622; NZ 240793 A 19940927; PT 99815 A 19940131; PT 99815 B 19990226; ZA 9110078 B 19921028

DOCDB simple family (application)  
**EP 91118604 A 19911031**; AR 32148491 A 19911220; AT 91118604 T 19911031; AU 8998491 A 19911220; CA 2058061 A 19911219; DE 69113592 T 19911031; DK 91118604 T 19911031; ES 91118604 T 19911031; FI 916071 A 19911220; GR 950401858 T 19951005; HK 97101884 A 19971004; IE 449191 A 19911220; IL 9996791 A 19911106; JP 35300691 A 19911217; KR 910023813 A 19911221; NO 915073 A 19911220; NZ 24079391 A 19911129; PT 9981591 A 19911216; ZA 9110078 A 19911220