

Title (en)
BULK PARTICULATE PACKAGING SYSTEM

Title (de)
VERPACKUNGSSYSTEM FÜR SCHÜTTGUT

Title (fr)
SYSTEME D'EMBALLAGE DE BLOCS DE PARTICULES

Publication
EP 1409348 A4 20060927 (EN)

Application
EP 00950654 A 20000725

Priority
US 0020209 W 20000725

Abstract (en)
[origin: CA2414662A1] A system for forming and packaging loose particulate material utilizing a compression tower (100) for initial deposit of the loose material therein with the bottom floor of said tower being presented by a belt (310) of a conveyor system (300). A ram within the tower compresses the loose material into a bulk form (1000) atop the conveyor belt (310). Subsequent to compression, the conveyor system (300) is vertically displaced so that the formed material bulk can be conveyed to a horizontally adjacent conveyor (550) for downstream conveyance to a packaging station (550) having upper (700) and lower (600) conveyor assemblies. The material bulk (1000) is then recompressed and conveyed to a space formed between the upper and lower assemblies. Sheets of packaging material (800a, 802a) spans portions of upper and lower conveyor assemblies such that the material bulk is directed through the sheet and enveloped thereby. Packaging material which envelops the bulk material is cut and thermally sealed leaving the packaging sheets spanning the conveyor assemblies.

IPC 8 full level
B65B 63/02 (2006.01); **B65B 9/02** (2006.01); **B65B 27/12** (2006.01)

CPC (source: EP)
B65B 9/026 (2013.01); **B65B 63/02** (2013.01)

Citation (search report)
• [A] GB 1023990 A 19660330 - SAINT GOBAIN
• [A] US 4343131 A 19820810 - MCCORMICK LLOYD G, et al
• [A] US 5979145 A 19991109 - LOUIS BERNARD [FR], et al
• [A] US 4010680 A 19770308 - BUCK JR GEORGE S, et al
• See references of WO 0208062A1

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

DOCDB simple family (publication)
AT E407065 T1 20080915; AU 6372800 A 20020205; CA 2414662 A1 20030131; CA 2414662 C 20070515; DE 60040175 D1 20081016; EP 1409348 A1 20040421; EP 1409348 A4 20060927; EP 1409348 B1 20080903

DOCDB simple family (application)
AT 00950654 T 20000725; AU 6372800 A 20000725; CA 2414662 A 20000725; DE 60040175 T 20000725; EP 00950654 A 20000725