

Title (en)

Use of baffles for the reduction of noises and oscillations during the emptying of silos

Title (de)

Verwendung von Wandeinbauten zur Verminderung von Geräuschen und Schwingungen bei der Entleerung von Silos

Title (fr)

Utilisation de chicanes pour la diminution des bruits et des oscillations lors de la vidange de silos

Publication

**EP 1801036 A1 20070627 (DE)**

Application

**EP 05028163 A 20051222**

Priority

EP 05028163 A 20051222

Abstract (en)

The silo is made from vibration-prone sheet metal, especially cold-rolled sheet steel with a thickness of 5 - 6 mm. It has a ratio of height:diameter of 2.6 -3. Noise is reduced when emptying bulk goods from the silo by storing them in zones (16 - 18) separated by compression zones (7). An independent claim is included for a method for reducing noise when emptying bulk goods from silos using the system described.

IPC 8 full level

**B65D 88/28** (2006.01)

CPC (source: EP)

**B65D 88/28** (2013.01)

Citation (applicant)

- DE 2318560 A1 19741107 - SCHWAEBISCHE HUETTENWERKE GMBH
- DE 1907174 A1 19700903 - STROMAG MASCHF
- DE 2312492 A1 19731122 - FISCHER AG GEORG
- FR 957893 A 19500228
- US 6250514 B1 20010626 - HANSSON STEFAN [SE]
- EP 0883561 B1 20000503 - DU PONT DEUTSCHLAND [DE]

Citation (search report)

- [X] DE 1907147 A1 19700903 - ERLING HANS P
- [X] US 3710959 A 19730116 - GESSLER H
- [X] US 3921351 A 19751125 - JOHNSON WALTER E
- [X] US 6139241 A 20001031 - CRAIG DAVID ANTHONY [US], et al
- [X] JP S5674472 A 19810619 - NIPPON KOKAN KK

Cited by

WO2019171146A1; CN103029045A; CN115285537A; CN104150115A; CN112793950A; CN112105881A; RU2761190C1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1801036 A1 20070627; EP 1801036 B1 20100303**; AT E459555 T1 20100315; DE 502005009153 D1 20100415; PL 1801036 T3 20100831

DOCDB simple family (application)

**EP 05028163 A 20051222**; AT 05028163 T 20051222; DE 502005009153 T 20051222; PL 05028163 T 20051222