

## Title (en)

DEVICE FOR EQUALIZING PRESSURE SURGES IN CLOSED SYSTEMS, SUCH AS SILOS OR THE LIKE

## Title (de)

VORRICHTUNG ZUM AUSGLEICH VON DRUCKSTÖßEN IN GESCHLOSSENEN SYSTEMEN, WIE SILOS ODER DGL.

## Title (fr)

DISPOSITIF POUR COMPENSER DES CHOCS DE PRESSION DANS DES SYSTÈMES FERMÉS, COMME DES SILOS OU ANALOGUES

## Publication

**EP 2084088 B1 20120815 (DE)**

## Application

**EP 07846830 A 20071127**

## Priority

- EP 2007010265 W 20071127
- DE 202006018244 U 20061201

## Abstract (en)

[origin: CA2670713A1] With a device (1) for equalizing pressure surges in cases of possible dust or gas explosions in closed systems, such as silos, pipelines or the like, comprising a hinged cover (3) which can be pivoted on an outlet connection or a closing edge (2) and has a smooth outer surface (12) and comprising a deflecting plate (8) on the outlet connection or on the closing edge (2) for the cover (3) to strike against in the event of an explosion, it is intended to achieve not only cost-effective production but also in particular a significant weight saving of the hinged cover, quick changing of the cover in the case of damage, or quick fitting of the cover in the first instance, and an improvement in the protective effect of the system. This is achieved by the hinged cover (3) being made of a carbon/glass-fibre material.

## IPC 8 full level

**B65D 90/02** (2006.01); **B65D 90/22** (2006.01)

## CPC (source: EP KR US)

**B65D 90/022** (2013.01 - EP KR US); **B65D 90/22** (2013.01 - EP KR US); **B65D 90/34** (2013.01 - EP KR US); **B65D 90/36** (2013.01 - EP KR US); **Y10T 137/6116** (2015.04 - EP US); **Y10T 137/7902** (2015.04 - EP US)

## Cited by

DE202017105238U1; WO2018054587A1; US10830353B2

## 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 MT NL PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**DE 202006018244 U1 20080410**; AU 2007324837 A1 20080605; AU 2007324837 B2 20130307; BR PI0719733 A2 20131210; CA 2670713 A1 20080605; CA 2670713 C 20140520; CN 101541647 A 20090923; CN 101541647 B 20121010; CY 1113090 T1 20160413; DK 2084088 T3 20120917; EA 014545 B1 20101230; EA 200900730 A1 20091230; EP 2084088 A1 20090805; EP 2084088 B1 20120815; ES 2389573 T3 20121029; JP 2010510937 A 20100408; JP 5291629 B2 20130918; KR 101442285 B1 20140923; KR 20090084907 A 20090805; MY 151642 A 20140630; PL 2084088 T3 20121130; PT 2084088 E 20120920; SI 2084088 T1 20121030; US 2010044374 A1 20100225; US 8720483 B2 20140513; WO 2008064853 A1 20080605

## DOCDB simple family (application)

**DE 202006018244 U 20061201**; AU 2007324837 A 20071127; BR PI0719733 A 20071127; CA 2670713 A 20071127; CN 200780044421 A 20071127; CY 121100795 T 20120905; DK 07846830 T 20071127; EA 200900730 A 20071127; EP 07846830 A 20071127; EP 2007010265 W 20071127; ES 07846830 T 20071127; JP 2009538629 A 20071127; KR 20097011008 A 20071127; MY PI20092091 A 20071127; PL 07846830 T 20071127; PT 07846830 T 20071127; SI 200731008 T 20071127; US 31261807 A 20071127