

Title (en)  
GROUND FLARE

Title (de)  
BODENFACKEL

Title (fr)  
TORCHE EN MILIEU CLOS

Publication  
**EP 2372243 A4 20140820 (EN)**

Application  
**EP 09834800 A 20091218**

Priority  
• JP 2009071156 W 20091218  
• JP 2008335055 A 20081226

Abstract (en)  
[origin: EP2372243A1] Provided is a ground flare in which a low-frequency vibration generated from a ground flare tower, such as a chimney, is properly adjusted to suppress it below a fixture-vibration generation limit, thereby preventing surrounding objects from resonating and vibrating. In a ground flare (10) that burns a flammable exhaust gas with a burner (11) at the lower end of a chimney, in which the lower end of the chimney (20) and the periphery of the burner (11) are surrounded by a windbreak (40), the low-frequency-noise sound pressure level of a ground flare tower composed of the chimney (20) and the windbreak (40) is reduced by selecting at least one of changing a natural frequency generated from the ground flare tower, using multiple ground flare towers, and installing a low-frequency-vibration absorber in the ground flare tower.

IPC 8 full level  
**F23G 7/08** (2006.01); **F23M 20/00** (2014.01)

CPC (source: EP KR US)  
**F23G 7/06** (2013.01 - KR); **F23G 7/08** (2013.01 - KR); **F23G 7/085** (2013.01 - EP US); **F23M 20/005** (2015.01 - EP US);  
**F23D 2210/00** (2013.01 - EP US); **F23J 2900/13003** (2013.01 - EP US)

Citation (search report)  
• [XYI] US 4137036 A 19790130 - STRAITZ III JOHN F  
• [X] US 3779689 A 19731218 - CORBLE J, et al  
• [X] US 4092095 A 19780530 - STRAITZ III JOHN F  
• [Y] JP S5396251 U 19780804  
• [Y] JP S5398531 A 19780829 - KAJIMA CORP  
• See references of WO 2010073999A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

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CA 2747977 A1 20100701; CN 102265090 A 20111130; CN 102265090 B 20140716; JP 2010156508 A 20100715; JP 5404031 B2 20140129;  
KR 101370237 B1 20140305; KR 20110116001 A 20111024; PL 2372243 T3 20190628; US 2011318697 A1 20111229;  
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JP 2009071156 W 20091218; KR 20117013345 A 20091218; PL 09834800 T 20091218; US 200913141266 A 20091218