

Title (en)

Apparatus for producing gas hydrate pellet and process for producing gas hydrate pellet with the same

Title (de)

Vorrichtung und Verfahren zur Herstellung von Gashydratpellets

Title (fr)

Appareil et procédé de fabrication d'une pastille d'hydrate de gaz

Publication

EP 2660303 A1 20131106 (EN)

Application

EP 13178339 A 20071010

Priority

- EP 13178339 A 20071010
- EP 07829503 A 20071010
- JP 2007069765 W 20071010

Abstract (en)

In producing gas hydrate pellets by compression-molding a gas hydrate powder, heat generated in a compressing part is removed with a simple method so as to reduce the degree of gas hydrate decomposition, and a gas hydrate aggregate blocking the compressing part is promptly and easily removed. A gas-hydrate-pellet production apparatus A is characterized by including: a roll-cooling mechanism which causes cooling water to flow through outer peripheral portions and/or insides of rolls 6a and 6b, thereby cooling the rolls 6a and 6b, and also cools the cooling water 43 discharged after the flow and supplies the cooled cooling water 43 to the outer peripheral portion and/or the inner portion of each of the rolls 6a and 6b; and/or heating means provided in a part of a hopper chamber 5 from which the gas hydrate powder n is fed to the rolls 6a and 6b.

IPC 8 full level

C10L 3/06 (2006.01)

CPC (source: EP US)

C10L 3/10 (2013.01 - EP US); **C10L 3/108** (2013.01 - EP US); **C10L 5/363** (2013.01 - EP US)

Citation (search report)

- [Y] JP 2007224249 A 20070906 - MITSUI SHIPBUILDING ENG
- [Y] WO 0143959 A1 20010621 - ALEXANDERWERK AG [DE], et al
- [YD] AU 2002306357 B2 20060309 - MITSUI SHIPBUILDING ENG & JP 2002220353 A 20020809 - MITSUI SHIPBUILDING ENG
- [A] DATABASE WPI Week 200767, Derwent World Patents Index; AN 2007-713888, XP002659814

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DOCDB simple family (publication)

EP 2204436 A1 20100707; **EP 2204436 A4 20111116**; **EP 2204436 B1 20130904**; EP 2660303 A1 20131106; ES 2431588 T3 20131127; US 2010205859 A1 20100819; WO 2009047845 A1 20090416

DOCDB simple family (application)

EP 07829503 A 20071010; EP 13178339 A 20071010; ES 07829503 T 20071010; JP 2007069765 W 20071010; US 73402510 A 20100406