

Title (en)  
METHOD FOR PRODUCTION OF GAS HYDRATES FOR TRANSPORTATION AND STORAGE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON GASHYDRATEN FÜR TRANSPORT UND LAGERUNG

Title (fr)  
PROCEDE DE PRODUCTION D'HYDRATES GAZEUX POUR LE TRANSPORT ET LE STOCKAGE

Publication  
**EP 0594616 B1 19990602 (EN)**

Application  
**EP 91911763 A 19910708**

Priority  
• CA 2113071 A 19910708  
• NO 900395 A 19900129  
• NO 9100101 W 19910708

Abstract (en)  
[origin: WO9301153A1] Method for the production of gas hydrates for storage and transportation of hydrate forming gases. The gas is pressurized and cooled, whereupon the gas (1b) is supplied to a vessel (6), to which water (7) is added simultaneously to the vessel (6) to form fine water droplets that are dispersed in the gas (1b) supplied. The temperature and pressure in the vessel (6) are adjusted to produce hydrate from water and gas. The gas (1b) supplied and the water droplets (7) react to form hydrate (8a); then the hydrate is then withdrawn from the reactor (6), optionally cooled in a cooling apparatus (11), and then passed to an agglomeration step (12) to agglomerate the hydrate (8a), thus increasing the density of the hydrate (8a) and to embed more gas in the interstices between the hydrate particles (8a). The agglomerated hydrate particles (8a) are transported to a suitable transportation unit or storage container to transport/store the hydrate at adiabatic conditions at atmosphere pressure or at a slight gauge pressure at a temperature below 0 DEG C, preferably at minus 10 DEG C to minus 15 DEG C.

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IPC 8 full level  
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