

Title (en)

APPARATUS FOR COOLING SYNTHESIS GAS IN A QUENCH COOLER

Publication

**EP 0284762 A3 19890208 (DE)**

Application

**EP 88102397 A 19880219**

Priority

DE 3711314 A 19870403

Abstract (en)

[origin: US4848982A] An arrangement for cooling a synthetic gas, generated in a gasification reactor, by means of a quenching cooler. The cooler is positioned below the outlet from the reactor and comprises a refrigerated inner jacket (5) surrounded by a pressurization jacket (1) and accommodating a water sump (6). There is an intermediate section (3) between the inner jacket and the outlet from the gasification reactor that is shorter in diameter than the inner jacket and longer in diameter than the outlet from the reactor. Spray nozzles (15) extend into the inner jacket. One or more gas-outlet connections (8) extend through the inner jacket in a plane above the sump.

IPC 1-7

**C10J 3/48; C10J 3/86**

IPC 8 full level

**C10J 3/54 (2006.01); C10J 3/48 (2006.01); C10J 3/76 (2006.01); C10J 3/86 (2006.01)**

CPC (source: EP US)

**C10J 3/00 (2013.01 - EP US); C10J 3/526 (2013.01 - EP US); C10J 3/76 (2013.01 - EP US); C10J 3/845 (2013.01 - EP US); C10K 1/08 (2013.01 - EP US); Y10S 48/02 (2013.01 - EP US)**

Citation (search report)

- [Y] DE 2650512 A1 19780511 - SIEGENER AG GEISWEID
- [Y] GB 2093175 A 19820825 - TEXACO DEVELOPMENT CORP
- [A] DE 1217014 B 19660518 - TEXACO DEVELOPMENT CORP

Cited by

EP1939271A1; EP2598615A4; EP0586837A3; CN101809125A; EP0433579A1; DE19714376C1; US5976203A; EP0870818A3; US8770555B2; DE102010045482A1; WO9845388A3; WO2009033543A1; US7740671B2; WO2012034700A2; US8945286B2

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