

Title (en)  
LP gas filling apparatus

Title (de)  
Flüssiggasfüllgerät

Title (fr)  
Dispositif de remplissage de gaz de pétrole liquéfié

Publication  
**EP 0660026 B1 19980805 (EN)**

Application  
**EP 94309693 A 19941222**

Priority  
JP 33212293 A 19931227

Abstract (en)  
[origin: EP0660026A1] The apparatus carries a plurality of gas cylinders (a) held in upright disposition on a turntable (d). Each cylinder (a) is fed onto the turntable (d) at feed-on location, and is fed off at a feed-off location, whilst a detecting head (5) moves downwards to locate the filling valve (a') at the top of the cylinder. If it is angularly misaligned with a radially disposed filling nozzle (7'), the nozzle is rotated around the cylinder (a) until alignment is achieved when the nozzle is engaged and filling takes place. At the end of filling, the nozzle 7' is retracted. <IMAGE>

IPC 1-7  
**F17C 5/00**

IPC 8 full level  
**F17C 6/00** (2006.01); **F17C 5/00** (2006.01); **F17C 5/02** (2006.01)

CPC (source: EP KR)  
**F17C 5/005** (2013.01 - EP KR); **F17C 13/003** (2013.01 - KR); **F17C 2201/0109** (2013.01 - EP KR); **F17C 2201/0119** (2013.01 - EP KR); **F17C 2205/0323** (2013.01 - EP KR); **F17C 2205/054** (2013.01 - EP); **F17C 2221/035** (2013.01 - EP KR); **F17C 2223/0153** (2013.01 - EP KR); **F17C 2223/033** (2013.01 - EP KR); **F17C 2227/04** (2013.01 - EP KR); **F17C 2250/032** (2013.01 - EP KR); **F17C 2250/0421** (2013.01 - EP); **F17C 2250/0615** (2013.01 - EP); **F17C 2250/0694** (2013.01 - EP KR); **F17C 2270/059** (2013.01 - EP KR)

Cited by  
CN113944871A; US11320094B2; FR2789154A1; US2020124232A1; US10648617B1; CN113653940A; CN107720190A; US10846975B2; WO2013002426A1; WO2013002425A1; US11250659B2; US12008855B2; WO2022211609A3; TWI777242B; US11796135B2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0660026 A1 19950628**; **EP 0660026 B1 19980805**; CN 1110387 A 19951018; DE 69412224 D1 19980910; JP 2520224 B2 19960731; JP H07190298 A 19950728; KR 950019357 A 19950722; TW 250531 B 19950701

DOCDB simple family (application)  
**EP 94309693 A 19941222**; CN 94119253 A 19941223; DE 69412224 T 19941222; JP 33212293 A 19931227; KR 19940035642 A 19941221; TW 83110961 A 19941125