

Title (en)
Improved boss for a filament wound pressure vessel.

Title (de)
Polstück für ein fasergewickeltes Druckgefäß.

Title (fr)
Coulot et coupelle d'un réservoir sous pression à filament enroulé.

Publication
EP 0550951 B1 19951115 (EN)

Application
EP 92307243 A 19920807

Priority
• US 81861992 A 19920110
• US 90272592 A 19920623

Abstract (en)
[origin: EP0550951A1] A boss (16) is disposed in a polar opening (18) in a pressure vessel (10) which has a filament wound outer shell (12) and a non-metallic internal liner (14). The boss has a tubular neck (24) which projects outwardly from the vessel interior and an annular support flange (28) which extends radially from the internal end of the neck and supports the perimeter of the polar opening. An offset attachment flange (32) extends radially from the support flange and has two axially opposed surfaces (34,36) with locking grooves (40,42) formed therein. Each locking groove has a bottom wall intermediate a pair of mutually skewed sidewalls (50) for maintaining positive engagement with and retention of complementary respective tabs on the liner. In an application where the liner is a blow molded component, an injection molded interface member (82) is attached to the support flange and provides a site at which the liner is welded. <IMAGE>

IPC 1-7
F17C 13/00; **F17C 1/16**

IPC 8 full level
F16J 12/00 (2006.01); **F17C 1/16** (2006.01)

CPC (source: EP)
F17C 1/16 (2013.01); **F17C 2201/0109** (2013.01); **F17C 2203/0604** (2013.01); **F17C 2203/0619** (2013.01); **F17C 2203/0663** (2013.01); **F17C 2203/0673** (2013.01); **F17C 2205/0305** (2013.01); **F17C 2209/2118** (2013.01); **F17C 2209/2127** (2013.01); **F17C 2260/036** (2013.01); **F17C 2260/044** (2013.01); **F17C 2260/053** (2013.01)

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