

Title (en)

Tube construction with adjoining layers of tubes

Title (de)

Rohrkonstruktion mit angrenzenden Rohrschichten

Title (fr)

Construction de tubes avec des couches de tubes adjacentes

Publication

**EP 0799764 B1 20011114 (EN)**

Application

**EP 97200960 A 19970401**

Priority

NL 1002756 A 19960401

Abstract (en)

[origin: EP0799764A1] A tube construction, intended in particular for hull or shell sections of vessels or wall sections of tanks, consists of a number of layers of adjoining tubes. Some of the tubes extend essentially perpendicularly with respect to the other tubes. In the event of a collision, some of the tubes will be crushed flat and the other tubes will be subjected to buckling. This leads to a situation where the membrane stresses generated in the outer skin are such that the material of the skin displays relatively extensive stretch before tearing could occur. Preferably, the tubes are formed by fixing plate sections to one another or clamping them against one another. <IMAGE>

IPC 1-7

**B63B 43/00**; E04C 2/34; B63B 43/18; B63B 11/04; B63B 3/62; B63B 3/20

IPC 8 full level

**B63B 3/20** (2006.01); **B63B 3/62** (2006.01); **B63B 11/04** (2006.01); **B63B 43/18** (2006.01)

CPC (source: EP)

**B63B 3/20** (2013.01); **B63B 3/62** (2013.01); **B63B 11/04** (2013.01); **B63B 43/18** (2013.01)

Cited by

FR2894931A1; CN110271641A; EP2163468A1; NL2001902C; EP3168133A4; FR2838706A1; US2015344107A1; US9616973B2; NL1010794C2; AU756330B2; BG64462B1; US7434526B2; US7207283B2; WO0030930A1; WO2007080248A1; WO2006021394A3; WO03080428A1; WO0035746A1

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