

Title (en)
PRESSURISED CONTAINER FOR STORING PRESSURISED LIQUID AND/OR GASEOUS MEDIA, CONSISTING OF A PLASTIC CORE CONTAINER WHICH IS REINFORCED WITH FIBRE-REINFORCED PLASTICS AND A METHOD FOR PRODUCING THE SAME

Title (de)
DRUCKBEHÄLTER ZUR SPEICHERUNG VON FLÜSSIGEN UND/ODER GASFÖRMIGEN MEDIEN UNTER DRUCK, BESTEHEND AUS EINEM KUNSTSTOFF-KERNBEHÄLTER, DER MIT FASERVERSTÄRKTEN KUNSTSTOFFEN VERSTÄRKT IST UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
RECIPIENT DESTINE A CONTENIR DES SUBSTANCES LIQUIDES ET/OU GAZEUSES SOUS PRESSION, DOTE D'UN RECIPIENT INTERNE EN PLASTIQUE RENFORCE PAR DES PLASTIQUES EUX-MEMES RENFORCES PAR DES FIBRES ET PROCEDE DE FABRICATION DUDIT RECIPIENT

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Application
EP 01911341 A 20010105

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Abstract (en)

[origin: WO0151844A2] The invention relates to a plastic core container which is reinforced with a fibre-plastic composite, for storing pressurised liquid and/or gaseous media. Said container comprises one or more connecting parts located in the neck and/or base and/or cylindrical container part. At least one of said connecting parts (3) is configured for receiving a screw-in cylindrical or conical pressure-line feed device, such as for example, a valve or pipe connection. The invention also relates to a method for producing a plastic core container of this type. According to the invention, a cylindrical insert (4) is mounted in the connection shank of the plastic core container, said insert having an end collar that envelops or surrounds the end of said connection shank. At least two seals are positioned in such a way that at least one seal lies between the insert and the inner surface of the plastic connecting shank of the plastic core container (1) and at least one additional seal lies between the insert and the pressure-line feed device. This guarantees a tight and permanent impermeability in the vicinity of the connecting parts, even under extreme, fluctuating thermal and operational stresses.

[origin: WO0151844A2] The invention relates to a plastic core container (2) which is reinforced with a fibre-plastic composite (1), for storing pressurised liquid and/or gaseous media. Said container (2) comprises one or more connecting parts located in the neck and/or base and/or cylindrical container part. At least one of said connecting parts (3) is configured for receiving a screw-in cylindrical or conical pressure-line feed device, such as for example, a valve or pipe connection. The invention also relates to a method for producing a plastic core container (2) of this type. According to the invention, a cylindrical insert (4) is mounted in the connection shank of the plastic core container (2), said insert having an end collar that envelops or surrounds the end of said connection shank. At least two seals are positioned in such a way that at least one seal lies between the insert and the inner surface of the plastic connecting shank of the plastic core container (2) and at least one additional seal lies between the insert and the pressure-line feed device. This guarantees a tight and permanent impermeability in the vicinity of the connecting parts, even under extreme, fluctuating thermal and operational stresses.

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Cited by
DE102010023386A1; FR2948166A1; DE102010049838B4; DE102007011211B3; DE102006004120A1; DE102006004121A1; DE102011120041A1; DE102013007514A1; WO2007085276A1; WO2008107049A1; US8186536B2; DE102013007513A1; US7637285B2; US7959027B2

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