Title (en)

Method and apparatus for draining a liquid from a tank

Title (de)

Verfahren und Vorrichtung zum Ablaufenlassen von Flüssigkeiten aus einem Behälter

Title (fr)

Méthode et dispositif pour l'écoulement d'un liquide depuis une cuve

Publication

EP 0722883 A1 19960724 (EN)

Application

EP 96100589 A 19960117

Priority

IT TO950029 A 19950118

Abstract (en)

Apparatus for draining liquid from a tank comprises a delivery duct (20) a first end of which can be disposed close to the bottom (5) of the tank (3) and the second end of which projects out from the tank (3). This duct includes a non-return valve (22) for preventing the flow of liquid back into the tank (3). First interception means (24) are disposed downstream of the non-return valve (22) and can assume a position opening or closing a delivery duct (20). A service duct (26) is connected at a first end to the delivery duct (20) and at its second end to pressure control means (32, 34). The pressure control means (32, 34) are operable to cause conditions of depression or pressurisation alternatively in the service duct (26) in such a way as to draw in the liquid present in the tank (3) or to force it out from the tank (3) through the delivery duct (20) until the tank (3) is drained. <IMAGE>

IPC 1-7

B63B 27/24

IPC 8 full level

B63B 27/24 (2006.01)

CPC (source: EP)

B63B 27/24 (2013.01)

Citation (search report)

- [XA] WO 8401138 A1 19840329 - THUNE EUREKA AS [NO]
- [A] GB 2022707 A 19791219 - HUGHES & CO
- [A] GB 2044202 A 19801015 - YAMASHITA SHINNIHON STEAMSHIP
- [A] GB 1179469 A 19700128 - KRACHT PUMPEN MOTOREN [DE], et al
- [A] GB 945179 A 19631223 - G & J WEIR LTD

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DE ES GB IT NL PT SE

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