

Title (en)
METHOD AND APPARATUS FOR TAKING LIQUIDS FROM DEEP VOLUMINOUS VESSELS

Publication
EP 0345527 A3 19901128 (DE)

Application
EP 89109287 A 19890523

Priority
DE 3818238 A 19880528

Abstract (en)
[origin: EP0345527A2] For taking liquids from deep voluminous vessels by aspiration containers with short suction pieces, a metered intermediate volume of liquid, accessible from above, is aspirated from a liquid volume of changing depth in the vessel. Simultaneously with this aspiration, a defined sample of liquid is sucked off. This suction aid possesses a tube which can be introduced into the vessel and a non-return valve closing towards the lower tube end. This tube (5) is arranged on a dish (2) which can be placed upon the mouth (6) of the vessel. Preferably, the dish (2) is part of a housing (1) in which the upper opening (16) of the tube (5) is arranged close to the cover wall (12) and, in the upper part of the dish (2), above the intermediate volume of the liquid held at least in the dish (2), there is an inlet opening (13) for the tip (14) of a working vessel (15) provided with a piston. With each sampling, an intermediate volume of defined depth is always produced in the housing. <IMAGE>

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IPC 8 full level
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CPC (source: EP US)
B01L 3/021 (2013.01 - EP US); **B01L 3/0293** (2013.01 - EP US)

Citation (search report)
• [A] DE 1275726 B 19680822 - HUBERT DONHAUSER
• [A] US 4690005 A 19870901 - TERVAMAEKI JUKKA [FI], et al
• [A] US 3811484 A 19740521 - ENGELBRECHT E

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AT BE CH ES FR GB IT LI LU NL SE

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