

Title (en)  
LIQUID SAMPLER

Title (de)  
FLÜSSIGKEITSPROBENEHMER

Title (fr)  
STRUCTURE AMÉLIORÉE D'ÉCHANTILLONNEUR POUR INSPECTIONS SOUS-MARINES

Publication  
**EP 2997362 A2 20160323 (EN)**

Application  
**EP 14805347 A 20140514**

Priority  
• IT PI20130042 A 20130514  
• IB 2014061425 W 20140514

Abstract (en)  
[origin: WO2015011579A2] Improved structure of liquid sampler (1) for underwater inspections comprising a hollow container body (10) having a longitudinal recess (15) in which it is slidingly mounted a piston (20). This divides the longitudinal recess (15) in a first containing chamber (30) hydraulically connected with the outside environment through at least one opening (31), and in a second containing chamber (40) equipped with at least one inlet mouth (41). Furthermore, a actuation device (60,70) is provided arranged to selectively arrange the or each inlet mouth (41) between a closed configuration, in which the second containing chamber (40) is hydraulically insulated from the outside environment and the first containing chamber (30) is flooded, and an open configuration, in which the second containing chamber (40) is hydraulically connected with the outside environment. The actuation device (60,70) is adapted, moreover, to cause a translation of the piston (20) in the longitudinal recess (15) from a first position, in which it is close to the, or to each, inlet mouth (41) and a second position, in which it is close to the, or each, opening (31). The translation of the piston (20) produces, in particular, a depression in the second chamber (30) that causes the introduction inside of the chamber of a predetermined volume of a liquid sample through the or each inlet mouth (41).

IPC 8 full level  
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