

Title (en)  
CONTAINER FOR DISPENSING DOSES OF A TREATMENT LIQUID

Publication  
**EP 0270409 B1 19900425 (FR)**

Application  
**EP 87402465 A 19871102**

Priority  
• FR 8615276 A 19861103  
• FR 8706965 A 19870519

Abstract (en)  
1. Container for distribution of doses of a treatment liquid (2) comprising a nozzle (10) fitted to the neck (6), the container (1) being designed to function with the neck (6) facing downwards submerging and emerging alternately in a volume of water (15), notable a lavatory cistern (3), the nozzle device (10) being of the type comprised mainly of a transparent partition (11) at a distance from the free edge (7) of the neck (6) thus forming an air compartment (13) and an outlet orifice (12) for the treatment liquid (2), drilled in the partition (11), the nozzle device (10) functioning in the first phase by the build-up of an air overpressure in the container (1) as the level (16) rises in the volume of water (15) above the level of the neck (6), due to the formation in the air compartment (13) of a volume of air separated from the ambient atmosphere by the volume of water (15) then by its compression and finally its expulsion into the container (1) via the outlet orifice (12) and, in the second phase, as the level (16) of the volume of water (15) descends below the level of the neck (6) due to the reduction in the air overpressure and expulsion of the treatment liquid (2) via the outlet orifice (12), resulting from the connection of the compartment (13) with the ambient atmosphere, until the relative pressures in relation to the surface tension of the treatment liquid cut off the treatment liquid (2) flow, characterised by the nozzle device (10) which is fitted with a mechanical, moving, regulation system (17), functioning mainly due to gravity, and whose functions are, on the one hand, to reduce the opening of the passage (23) communicating with a discharge orifice (18) during the second phase of the water level descent (16) and treatment liquid (2) discharge and, on the other hand, to reduce the relative variation in the total weight of the regulation system (17) and the column of treatment liquid (2) it supports, due to the weight of the regulation system (17) itself, this regulation system being used to provide an evenly distributed dose as the container (1) is gradually emptied.

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**E03D 9/03**

IPC 8 full level  
**E03D 9/03** (2006.01)

CPC (source: EP US)  
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Cited by  
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