

Title (en)
PROCESS FOR AUTOMATICALLY EMPTYING AND CLEANING SANITARY CONTAINERS AND APPARATUS FOR CARRYING OUT THE PROCESS

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Application
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Abstract (en)

[origin: EP0093846A1] 1. Method for the automatic emptying and cleaning of hygiene receptables with the following computerized process steps by motor drive of the individual movements : - introduction of the filled hygiene receptable (19) into a mounting support (4), constructed as part of a turning device and pivotable about a horizontal swivel axis in the interior of a rinsing chamber (1), - closing of a vertically slideable door (2) on the front side of the rinsing chamber (1) through waterproof sealing of the rinsing chamber (1) externally and swiveling of the hygiene receptable about the swivel axis for emptying, - cleaning of the interior of the rinsing chamber (1) with water from a water tank (11) above the rinsing chamber (1), - internal cleaning of the emptied hygiene receptable (19) with water over at least one nozzle (15), - complete removal of the cleaning water via syphon (18) in the lower conical part (17) of the rinsing chamber (1), - introduction of steam into the rinsing chamber (1) for the disinfection from an evaporator situated outside the device, - cooling with cold water, opening of the door (2) by swiveling the support (4) at the same time and removal of the hygiene receptable (19), characterized in that - the cleaning of the interior of the rinsing chamber (1) after shutting and emptying the hygiene receptable (19) with pressure water over a spraying nozzle (8) situated at the ceiling of the rinsing chamber (1) is carried out in such a way that all inner surfaces of the rinsing chamber (1) as well as all outer surfaces of the hygiene receptable (19) are completely wetted and cleaned for a while, and the emptied contents of the hygiene receptable (19) is completely removed through cleaning water via syphon (18) of the lower conical part (17) of the rinsing chamber, - after switching off the spraying nozzle (8) and opening of a pipe (12) leading through the wall of the rinsing chamber (1) which is connected with a pipe (14) by means of a revolving turret (13) in the interior of the rinsing chamber (1), and which is connected detachably with the turning device (3), the pressure water being intensively and optimally injected into the hygiene receptable via a nozzle (15) situated about above the middle of the opening of the hygiene receptable (19) for the complete inner cleaning by a flow pressure higher than the water pressure at the nozzle (8), - that the disinfection of the emptied and cleaned hygiene receptable (19) and of the interior of the rinsing chamber (1) is carried out in such a way that warm water is introduced into the upper water tank (11) through pipe (27) and is pressed into the funnel-shaped extension (29) of a pipe (30) over a short free-distance (28) above the water surface, which leaves the water tank (11) again, and the warm water leading downwards over a U-shaped bent distance (31) into a steam generator, and the steam produced therein is introduced into the rinsing chamber (1) above the conical part (17), thus preventing the retreat of the steam by standing water in the U-shaped bent distance (31), - and thereafter the door (2) is opened to the top by swiveling the mounting support (4) at the same time in the turning device (3) in reverse swivel direction, and the emptied, cleaned and disinfected hygiene receptable is removed.

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Cited by
KR100864779B1; EP1666015A1; EP2425862A1; AU601195B2; EP0294516A1; EP4272769A1; DE102007025869A1; WO9720493A1

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