

Title (en)  
AN APPARATUS FOR FILLING BOTTLES

Publication  
**EP 0051890 B1 19840718 (EN)**

Application  
**EP 81201191 A 19811028**

Priority  
NL 8006131 A 19801110

Abstract (en)  
[origin: EP0051890A2] The invention relates to an apparatus for filling bottles with liquid under low pressure, comprising a rotating filling tank (2) provided in or around its bottom with a carousel of filling valves. Each of the filling valves consists of a fixed housing (3) in which a hollow body (4) is arranged being displaceable against the pressure of a spring (5) and adapted to cooperate with the neck of the bottle to be filled. The fixed housing is constructed from an outer part and an inner part comprising a gas pipe (6), which has a widened portion (10) in which an annular seat is formed for a liquid valve (13). The gas pipe extends by one end above the level of the liquid in the tank while its other end is inserted into the bottle. The gas pipe is further provided with a shut-off valve (17) being actuated by said displaceable body (4). The liquid valve (13) is constructed with a tubular extension (14) which cooperates with an internal compression spring (14 min ) for opening the valve and on the other hand abuts against a bridge-shaped element (15) of the hollow body above which element a bracket-shaped member (16) is arranged for actuating the shut-off valve (17) of the gas pipe (6). The filling tank (2) is further provided with a horizontal partition plate (25) above the level of the liquid, said plate comprising a stationary closure plate (26). Through this closure plate a supply (27) for protective gas is arranged. The top of the tank is provided with a discharge (34). The upper surface of the tank may also be provided with an assembly block (33) on which a spray member (29) is mounted for cleaning purposes.

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Cited by  
FR2877660A1; EP1544156A1; FR2686332A1; US6035872A; US7347231B2; WO9718154A1

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