

Abstract

A Method of Priming a Drainage Apparatus for Siphoning Liquid, and A Drainage Apparatus

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A drainage apparatus 100, 300-800 for siphoning liquid between first and second reservoirs 102,104 is disclosed. In a first embodiment, the apparatus 100 includes a conduit arrangement having a first opening 112 disposed in the first reservoir 102, a second opening 114 disposed in the second reservoir 104 and a
10 liquid injection inlet 106b12 arranged between the first and second openings 112,114, and a plurality of valves 108,110 for controlling flow of the liquid along the conduit arrangement. A method 200 for priming the drainage apparatus 100 comprises directing liquid into the conduit arrangement at 202 via the liquid injection inlet 106b12 to fill up most of the conduit arrangement as controlled by
15 the valves' configuration; directing liquid into the first reservoir 102 at 206 to enable more liquid to enter into the conduit arrangement via the first opening 112 and at 208, to flood the conduit arrangement to form a continuous liquid flow path which extends from the first opening 112 up to at least the second opening 114, the continuous liquid flow path creating a siphon; and with the first opening
20 112 kept below the liquid's surface level in the first reservoir 102, stopping the flow of liquid into the first reservoir 102 to achieve a state of equilibrium of the siphon at 210 to prime the conduit arrangement. After the priming and in use, the siphon is triggered when more liquid is added into the first reservoir 102 which causes the added liquid to be siphoned to the second reservoir 104 via
25 the primed conduit arrangement.

[Figure 2]