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(54) **Title:** NON-CONTACT SUCTION CUP DEVICE WITH FLOW RECYCLING

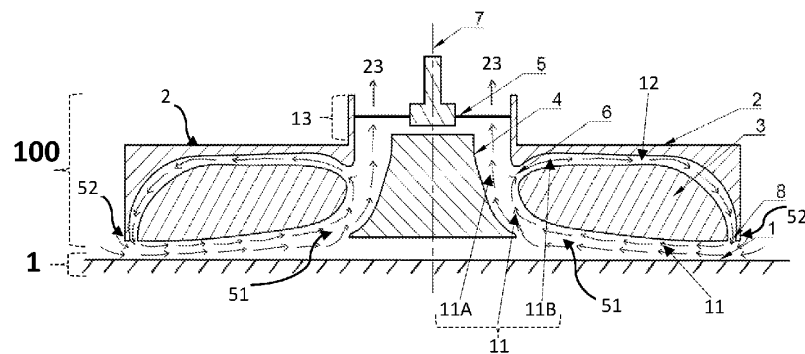


FIG. 1

(57) **Abstract:** The present invention discloses a non-contact suction cup device (100) with flow recycling. The device is based on the recycling flow of fluid through one or more passage(s) (12) provided inside a suction cup chamber (51). The device further optionally comprises a flow diverter (4) configured to divert the flow of fluid, and suction means (5) either directly or indirectly attached with the suction cup of the device (100), configured to suck or draw the fluid (11) from the periphery (52). The said passage (12) allow part of fluid to recirculate within the device chamber, hence causing a recycling effect on fluid used to create suction, which provides lower acoustic noise and higher energy efficiency

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