

PATENT NO. 387907
AN IMPROVED HAND PUMPING SYSTEM

APPLICATION NO. 1386/KOL/2009

APPLICANT

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ABSTRACT

The present invention relates to an improved hand pumping system for lifting liquid from a first elevation level to a second elevation level, the second elevation level being at a level higher than that of the first elevation level, the system comprising a hand pump (1) installed on a concrete base (13) formed on the ground surface (12), the pump (1) comprising a cylinder (9), a piston (18), a suction port (3), a delivery port (6), a handle (7), a cap (17), and a suction valve (11); and a secondary water sump (2) connected to the main water sump (4) which provides a secondary static suction head on the ground surface (12) enabling a reduction in the operating force due to elimination of the requirement for lifting water directly from the main water sump (4).

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CLAIM 1

An improved hand pumping system for lifting liquid from a first elevation level to a second elevation level, the second elevation level being at a level higher than that of the first elevation level, the system comprising-a hand pump (1) installed on a concrete base (13) formed on the ground surface (12), the pump (1) comprising a cylinder (9), a piston (18), a suction port (3), a delivery port (6), a handle (7), a cap (17), and a suction valve (11); and -a secondary water sump (2) connected to the main water sump (4) which provides a secondary static suction head on the ground surface (12) enabling a reduction in the operating force due to elimination of the requirement for lifting water directly from the main water sump (4).