

5 We Claim:

1. A system for facilitating an automatic urinal toilet flushing comprising:

- a pipe (P) having an intermediate enlarged inner diameter area, said pipe comprising:
 - a first portion P_1 having a first diameter d_1 ;
 - 10 ○ a second portion P_2 having a second diameter d_2 ;
 - a third portion P_3 having a third diameter d_3 ; wherein the first, the second and the third portions are sequential and the diameter d_2 is greater than diameter d_1 and diameter d_3 ;
 - a tapered fourth portion P_4 connecting the first portion P_1 to the second portion
 - 15 P_2 ; and
 - a tapered fifth portion P_5 connecting the second portion P_2 to the third portion P_3 ;
- a valve mechanism located within the pipe (P), said valve mechanism comprising an inlet dual valve (1), an outlet dual valve (2) and a connecting rod connecting the inlet
- 20 dual valve (1) and outlet dual valve (2); and
- an actuating mechanism connected to the valve mechanism and comprising a compressible platform (10) to get automatically actuated under a weight of a user, wherein the actuating mechanism upon actuation operates simultaneously upon the inlet dual valve (1) and the outlet dual valve (2) to perform a flushing operation.

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2. The system for facilitating automatic urinal toilet flushing as claimed in claim 1, wherein the actuating mechanism operates the inlet and outlet dual valves (1,2) such that when the inlet dual valve (1) is in a closed position, the outlet dual valve (2) is maintained in an open

30 position and vice-versa.

3. The system for facilitating automatic urinal toilet flushing as claimed in claim 1, wherein the inlet dual valve (1) comprises a first and a second portion.

35 4. The system for facilitating automatic urinal toilet flushing as claimed in any of claims 2 or 3, wherein in the closed position the first and second portion of the inlet dual valve (1) co-operates with the first and the fourth portions P_1 and P_4 of the pipe, respectively.

40 5. The system for facilitating automatic urinal toilet flushing as claimed in claim 1, wherein the outlet dual valve (2) comprises a first and a second portion.