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(54) Title: METHOD AND DEVICE FOR OPERATING THE WATER FLUSHING AND THE DISCHARGE VALVE IN A TOILET OR THE LIKE CONNECTED TO A VACUUM SEWER

(57) Abstract

A method for controlling the discharge valve (3) and preferably the flushing of a toilet or the like in a vacuum sewer system is characterized in that the discharge valve opens and closes with velocities providing an opening time which is less than 0.75 and a closing time which is less than 0.75 second. Further, a device for controlling the discharge valve (3) and flushing of a toilet or the like in a vacuum sewer system where the device and discharge valve are driven by means of the vacuum being generated in the drainage system (27) is characterized in that the device (5) includes at least three operation valves, a first (10), second (9) and third (11) valve. The valves are provided to be set or reset by means of a common piston rod in the form of a cam (12) which is driven by a piston (7) in a cylinder housing (6). The first valve (10), which is triggered by a start device (23), is provided to connect the chamber of the cylinder (6) with the vacuum source in the sewer pipe (27) system via the respective conduits, pipes and vacuum reservoir (21, 25, 26). The second valve (9) is set by the cam (12) and is provided to connect the vacuum source in the sewer pipe (27) with the driving device (29, 64) for the discharge valve (3). Finally the third valve (11) is set by the cam (12) and is provided to connect a flushing ring (2) or the like with a water source via pipes and conduits (33, 34).

