

The invention relates to the protection of driver and passengers of surface vehicles, as well as empty vehicles in extreme situations, such as flood, falls during vehicle accidents in a pond, lake, river, etc.

The safety system for preventing submersion of surface vehicle comprises, uniformly distributed in the operating position, under the bottom (1) of the vehicle, air cushions $P_1...P_8$, placed in the nonoperating position in boxes/covers $C_1...C_8$; a cylinder (2) with compressed gas, connected through a gearbox (3) to a distribution gas conduit (4), provided with a main electropneumatic valve V_0 , to which is also connected an electric pneumatic pump M, wherein the gas conduit (4) is provided with a gas-pressure sensor R_i in the gas conduit (4); electropneumatic $V_1...V_8$ and return $S_1...S_8$ valves, installed on gas fittings (5), connecting each cushion $P_1...P_8$ to the gas conduit (4). Each cushion $P_1...P_8$ is equipped with a gas-pressure sensor $R_1...R_8$, located in it. The system also comprises water presence sensors (6)...(14), one of which (6) is placed under the bonnet of the vehicle in the region of the engine and at least two of which are placed inside the vehicle, wherein the sensors (6)...(14) are electrically connected to the valve V_0 of the gas conduit (4). The gas-pressure sensors $R_1...R_8$ in the cushions $P_1...P_8$ are electrically connected to the valves $V_1...V_8$ of the cushions $P_1...P_8$, and the gas-pressure sensor R_i in the gas conduit (4) is electrically connected to a drive of the pneumatic pump M.

Claims: 3

Fig.: 4

