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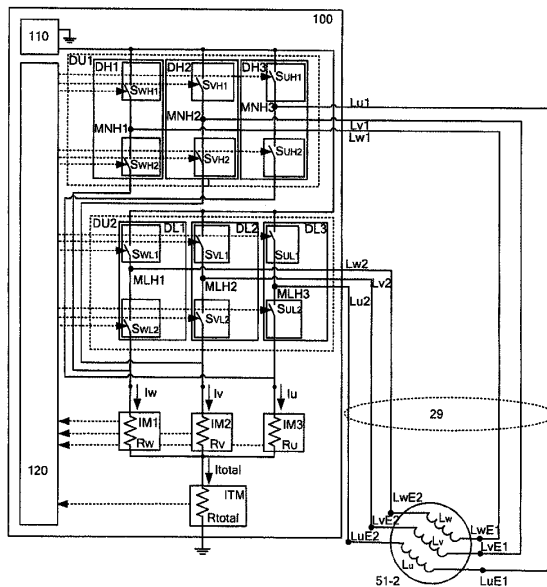


Fig. 4

(57) Abstract: Blood pump for percutaneous insertion into a heart's ventricle comprising an electrical motor for driving the blood pump, the electrical motor comprising at least three motor winding units, wherein each motor winding unit is individually connectable to a power supply via two separate phase supply lines connected to the respective motor winding unit terminals. Motor controller for driving and controlling the electrical motor of the blood pump, wherein the motor controller comprises corresponding phase supply line driving units for each motor winding units of the electrical motor of the blood pump which phase supply line driving units are connected via the corresponding two phase supply lines with the corresponding motor winding unit. Blood pump system comprising the blood pump and the motor controller. Control method for controlling the power supply to the motor winding units of the blood pump, wherein the method comprises: detecting a fault of one of the motor winding units, and in case of a detected faulty motor winding unit, switching off the corresponding phase supply line driving unit of the faulty motor winding unit and further operating the electrical motor by the remaining motor winding units, or, alternatively, adjusting driving parameters of the faulty motor winding unit and further operating the electrical motor by all motor winding units. Use of at least three independent motor winding units in an electrical motor for driving of a blood pump for percutaneous insertion, which motor winding units are individually connected to corresponding power supply via corresponding two separate phase supply lines connected to respective motor winding unit terminals of one of the at least three motor winding units.

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