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(54) Title: BRAIN RESUSCITATION APPARATUS AND METHOD

(57) Abstract

A brain resuscitation apparatus includes a fluid pathway in fluid communication with a source of medical fluid, an interface unit for attaching the fluid pathway to the cardiovascular system of a mammal suffering from impaired blood flow in order to establish an artificial circulation in the mammal utilizing the medical fluid, and heat exchange apparatus that provides intense cooling to quickly chill the medical fluid a sufficient amount to slow a metabolic rate of a brain of a mammal into which the medical fluid is introduced. A method of treating anoxic and/or ischemic brain injury in a mammal suffering from impaired blood flow includes utilizing heat exchange apparatus that provides intense cooling to quickly chill a medical fluid a sufficient amount to slow a metabolic rate of a brain of a mammal into which the medical fluid is introduced, and introducing the chilled medical fluid into the cardiovascular system of a mammal suffering from impaired blood flow in order to establish an artificial circulation in said mammal, whereby the mammal remains substantially neurologically intact.

