

Chart of Petitioner's Correlation of Claim Elements

Claim 21	Claim 1
[21A] a heart assist pump device deliverable to the heart and comprising: an inflow tube defining a blood inflow path along an inflow axis and being insertable into a left ventricle;	[1A] a heart assist pump device deliverable to the heart and comprising: an inflow tube defining a blood inflow path and having a suction end insertable into a ventricle of the heart;
[21B] one or more walls at least partially defining a chamber to receive blood from the inflow tube;	[1C] the magnetically driven rotor being rotatable within a surrounding rotor housing to act upon blood flowing from the inflow tube toward the rotor, [3A] The system of claim 2, wherein the surrounding rotor housing comprises the at least one sealing wall,
[21C] a magnetically driven rotor axially aligned with the inflow axis and being rigidly coupled to a first magnetic device	[1B] a magnetically driven rotor axially aligned with the inflow tube and being spaced apart from the suction end when the suction end of the inflow tube is inserted into the ventricle, [1E] and [the magnetically driven rotor] being rigidly coupled to [a first magnetic device]
[21D] and [a magnetically driven rotor is] axially adjacent to a first magnetic device that is axially aligned with the inflow axis,	[1F] and [the magnetically driven rotor is] axially adjacent to a first magnetic device [21C]
[21E] the magnetically driven rotor and first magnetic device being rotatable about an axis of rotation aligned with the inflow axis to drive the blood flowing from the inflow tube;	[1C] the magnetically driven rotor being rotatable within a surrounding rotor housing to act upon blood flowing from the inflow tube toward the rotor, [1D] the magnetically driven rotor being rotatable about a central axis
[21F] a magnetic drive system comprising a second magnetic device axially aligned with the inflow axis	[1H] a second magnetic device axially aligned with the inflow tube [1I] and [the second magnetic device] positioned to magnetically drive rotation of the magnetically driven rotor via a magneto coupling with the first magnetic device

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[21G] And [the second magnetic device is] spaced apart from the magnetically driven rotor such that a wall of the one or more walls defining the chamber is positioned between the magnetically driven rotor and the second magnetic device, the second magnetic device positioned axially closer to the first magnetic device than to the magnetically driven rotor	[1J] while [the second magnetic device] being spaced apart and sealed from both the magnetically driven rotor and the first magnetic device by at least one sealing wall, the second magnetic device being positioned axially spaced apart from the magnetically driven rotor; [3B] and the first magnetic device is positioned between the second magnetic device and the magnetically driven rotor.
[21H] so as to [the second magnetic device] magnetically drive rotation of the magnetically driven rotor within the chamber via a magneto coupling with the first magnetic device; and	[1I] and [the second magnetic device] positioned to magnetically drive rotation of the magnetically driven rotor via a magneto coupling with the first magnetic device
[21I] a blood outflow port positioned radially outward of the magnetically driven rotor such that the blood driven by the magnetically driven rotor exits the chamber in a direction transverse to the inflow axis	[1K] a blood outflow port positioned radially adjacent the magnetically driven rotor such that blood driven by the magnetically driven rotor is configured to exit the surrounding rotor housing in a direction transverse to the central axis of the magnetically driven rotor,
[21J] wherein the magneto coupling orients the magnetically driven rotor so that both the magnetically driven rotor and the first magnetic device remain spaced apart from the one or more walls by the blood in response to rotation of the magnetically driven rotor; and	[1L] wherein when the magnetically driven rotor is rotated, the magnetically driven rotor remains adjacent to and spaced apart from the surrounding rotor housing by the blood flowing from the inflow tube and to the blood outflow port; and
[21K] an external control unit configured to control operation of the second magnetic device based on a control value indicative of a defined cardiac output,	[1M] an external control unit configured to regulate operation of the second magnetic device, wherein the external control unit is connectable to the heart assist pump device for controlling the second magnetic device to thereby magnetically drive the rotation of the magnetically driven rotor via the magneto coupling with the first magnetic device. [15] The system of claim 14, wherein the control value indicative of a defined cardiac output for control of the heart assist pump device.

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[21L] wherein the external control unit is connectable to the heart assist pump device for controlling the second magnetic device to thereby magnetically drive the rotation of the magnetically driven rotor via the magneto coupling with the first magnetic device.	[1M] an external control unit configured to regulate operation of the second magnetic device, wherein the external control unit is connectable to the heart assist pump device for controlling the second magnetic device to thereby magnetically drive the rotation of the magnetically driven rotor via the magneto coupling with the first magnetic device.