

序号	标题	摘要	申请人	申请号	申请日
1	BOTTOM-FOUNDED OCEAN THERMAL ENERGY CONVERSION PLANT	Ocean thermal energy conversion plants can include : an operations center located onshore; a bottom-founded structure located offshore, the bottom-founded structure containing plant evaporators and plant condensers; and control cables extending between the operations center and plant machinery in the bottom-founded structure. Methods of providing electricity can include : transmitting signals from an operations center located onshore to an unmanned structure located offshore; and operating evaporators, condensers, and pumps located in the unmanned structure in response to the signals to generate between 0.5 megawatts and 15 megawatts of electricity in the unmanned structure.	THE ABELL FOUNDATION INC; COLE Barry R; SHAPIRO Laurence Jay; ROSS Jonathan M; HAYDEN William Martin	WOUS20044585	2020/7/31
2	Vessel-mounted ocean thermal energy conversion system	An offshore power generation system comprising : a floating portable platform having one or more OTEC heat exchange units, one or more turbine generators, a water intake and discharge system, a mooring system; and a fixed manifold having one or more cold water intake connections in communication with a cold water pipe, and one or more cold water discharge connections in communication with the water intake system of the floating platform via an intermediate cold water conduit, wherein each cold water discharge connection is detachable from the intermediate cold water pipe.	The Abell Foundation Inc; THE ABELL FOUNDATION INC	US15112781	2015/1/20
3	Ocean Thermal Energy Conversion Power Plant	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	The Abell Foundation Inc	US17101907	2020/11/23
4	TRANSFERRING HEAT BETWEEN FLUIDS	Heat exchangers can include heat exchange plates with : front and back exterior surfaces exposed to a non-working fluid; an interior working fluid flow channel between the front and back exterior surfaces, comprising a first plurality of parallel flow paths in a first direction and a second plurality of parallel flow paths in a second direction.	The Abell Foundation Inc	EP12823372	2012/8/15
5	Ocean thermal energy conversion power plant	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	The Abell Foundation Inc	US15789293	2017/10/20

6	OCEAN THERMAL ENERGY CONVERSION POWER PLANT COLD WATER PIPE CONNECTION	An offshore structure for use with an OTEC system includes a submerged spar having a lower portion having a cold water intake. The cold water intake includes a domed terminus in fluid communication with a cold water pipe. A dry machinery space adjacent the cold water intake includes one or more cold water supply pumps and one or more cold water pipe lifting and retention winches having a lifting cable connected to the cold water pipe.	THE ABELL FOUNDATION INC; ROSS Jonathan M; WILKINS Daniel Latimer; GUPTA Manish; MORROW Gregory M;	WOUS12050954	2012/8/15
7	Ocean thermal energy conversion pipe connection	A method of assembling a pipe on a water-supported floating platform is provided. The platform includes an open central bay, and a gantry on the platform is arranged so as to surround at least a portion of the bay. The method includes providing a pipe intake assembly and staves on the platform; transferring the pipe intake assembly to the interior space of the bay; assembling the individual staves on the pipe intake assembly in an offset construction; lowering the pipe portion within the bay and into the water until the upper ends of the staves reside within a lower portion of the gantry; increasing the length of the pipe portion by assembling additional staves to the upper ends of the assembled staves; and repeating the step of increasing the length of the portion of the pipe until the pipe has a desired length.	The Abell Foundation Inc	US15606993	2017/5/26
8	OCEAN THERMAL ENERGY CONVERSION POWER PLANT	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	THE ABELL FOUNDATION INC	WOUS13068894	2013/11/7
9	Ocean thermal energy conversion plant	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection. The heat exchangers in the evaporator and condenser systems include a multi-stage cascading heat exchange system. Warm water conduits in the first deck portion and cold water conduits in the second deck portion are integral to the structure of the submerged portion of the offshore platform.	The Abell Foundation Inc	US14511382	2014/10/10

10	Ocean thermal energy conversion power plant cold water pipe connection	An offshore structure for use with an OTEC system includes a submerged spar having a lower portion having a cold water intake. The cold water intake includes a domed terminus in fluid communication with a cold water pipe. A dry machinery space adjacent the cold water intake includes one or more cold water supply pumps and one or more cold water pipe lifting and retention winches having a lifting cable connected to the cold water pipe.	The Abell Foundation Inc	US14873752	2015/10/2
11	OCEAN THERMAL ENERGY CONVERSION PIPE CONNECTION	A method of assembling a pipe on a water-supported floating platform is provided. The platform includes an open central bay, and a gantry on the platform is arranged so as to surround at least a portion of the bay. The method includes providing a pipe intake assembly and staves on the platform; transferring the pipe intake assembly to the interior space of the bay; assembling the individual staves on the pipe intake assembly in an offset construction; lowering the pipe portion within the bay and into the water until the upper ends of the staves reside within a lower portion of the gantry; increasing the length of the pipe portion by assembling additional staves to the upper ends of the assembled staves; and repeating the step of increasing the length of the portion of the pipe until the pipe has a desired length.	The Abell Foundation Inc	EP13847378	2013/10/15
12	OCEAN THERMAL ENERGY CONVERSION POWER PLANT	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	The Abell Foundation Inc	EP11735259	2011/1/21
13	Ocean thermal energy conversion power plant	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	The Abell Foundation Inc	US14441372	2013/11/7
14	船载海洋热能转换系		THE ABELL	HK16114784.3	2016/12/29

15	VESSEL-MOUNTED OCEAN THERMAL ENERGY CONVERSION SYSTEM	An offshore power generation system comprising : a floating portable platform having one or more OTEC heat exchange units, one or more turbine generators, a water intake and discharge system, a mooring system; and a fixed manifold having one or more cold water intake connections in communication with a cold water pipe, and one or more cold water discharge connections in communication with the water intake system of the floating platform via an intermediate cold water conduit, wherein each cold water discharge connection is detachable from the intermediate cold water pipe.	THE ABELL FOUNDATION INC	WOUS15012102	2015/1/20
16	OCEAN THERMAL ENERGY CONVERSION POWER PLANT	An power generation structure comprising a portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, a cold water pipe, and a cold water pipe connection. The evaporator and condenser systems include a multi-stage cascading heat exchange system. Warm water conduits in the first deck portion and cold water conduits in the second deck portion are integral to the structure of the portion of the platform.	THE ABELL FOUNDATION INC; SHAPIRO Laurence Jay; ROSS Jonathan M; COLE Barry R; MARSON Bruce Robert	WOUS12050933	2012/8/15
17	Ocean Thermal Energy Conversion Cold Water Pipe	An offshore power generation structure comprising a submerged portion having heat exchange sections, power generation sections, a cold water pipe and a cold water pipe connection. The cold water pipe comprises a plurality of offset first and second staved portions.	The Abell Foundation Inc	US14802474	2015/7/17
18	Industrial Ocean Thermal Energy Conversion Processes	A combined OTEC and steam system having an OTEC power generation system including a multistage condensing system in fluid communication with a cold water system and a steam system comprising a steam condenser, wherein the steam condenser is in fluid communication with the cold water system.	The Abell Foundation Inc	US14490478	2014/9/18
19	INDUSTRIAL OCEAN THERMAL ENERGY CONVERSION PROCESSES	A combined OTEC and steam system having an OTEC power generation system including a multistage condensing system in fluid communication with a cold water system and a steam system comprising a steam condenser, wherein the steam condenser is in fluid communication with the cold water system.	THE ABELL FOUNDATION INC; SHAPIRO Laurence Jay; COLE Barry R; ROSS Jonathan M;	WOUS11044015	2011/7/14

20	OCEAN THERMAL ENERGY CONVERSION POWER PLANT	An offshore power generation structure comprising a submerged portion having a first deck portion comprising an integral multi-stage evaporator system, a second deck portion comprising an integral multi-stage condensing system, a third deck portion housing power generation equipment, cold water pipe; and a cold water pipe connection.	THE ABELL FOUNDATION INC; COLE Barry R; ROSS Jonathan M; REKRET Andrew;	WOUS11022115	2011/1/21
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