

Title: Solar steam power generation patent

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The systems and methods described herein relate to steam generation, such as may be used for desalination and distillation of water, namely to a solar steam generator, which can be used for ...

Low pressure steam generated by a solar collector is compressed to raise its temperature and pressure. The compressor is driven by an engine which is, in turn, driven by a combustible fuel. Shaft work ...

Feed water is pressurized, preheated, and evaporated in a series of pipes exposed to concentrated solar energy to produce a water-steam mixture for direct distribution to an industrial process...

Efficient harvesting of solar energy for steam generation is a key factor for a broad range of applications, from large-scale power generation, absorption chillers and ...

Steam turbines are used to generate most of the world's electricity, and they accounted for about 42% of U.S. electricity generation in 2022. Most steam turbines have a boiler where fuel is ...

The present invention is an improvement in variable vacuum steam heating systems and subatmospheric steam heating systems consisting of a solar energy collecting panel capable of ...

In order to solve the problems described above, a solar thermal power generation system according to an aspect of the present invention includes: a low-temperature heat collection device ...

It has been found that the configuration and features of the panel 122 provides very efficient heat transfer from the solar energy reflected onto the panel 122 and the water and/or steam ...

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