

Authentic Listening

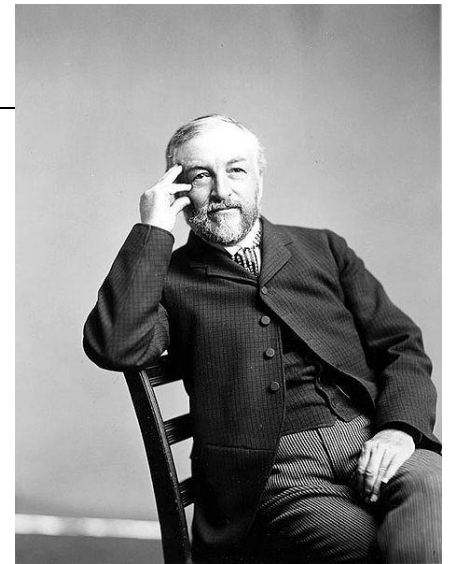


Image source:

http://en.wikipedia.org/wiki/File:Samuel_Pierpont_Langley.jpg

Audio file source:

http://www.kuhf.org/programaudio/engines/eng2871_64k.m3u

1. Which of the following one would be able to find in the speaker's 1884 issue of *Century Magazine*? (tick as many as appropriate)

- A final version of Mark Twain's *Huckleberry Finn*
- Ulysses S. Grant's memoirs
- Samuel Pierpont Langley's article on the latest in solar power technology
- Samuel Pierpont Langley's report on his first aeroplane flight

2. What example does Samuel Pierpont Langley use to explain the power of the sun reaching the Earth?

3. When was the picture on the right published and what does it show?

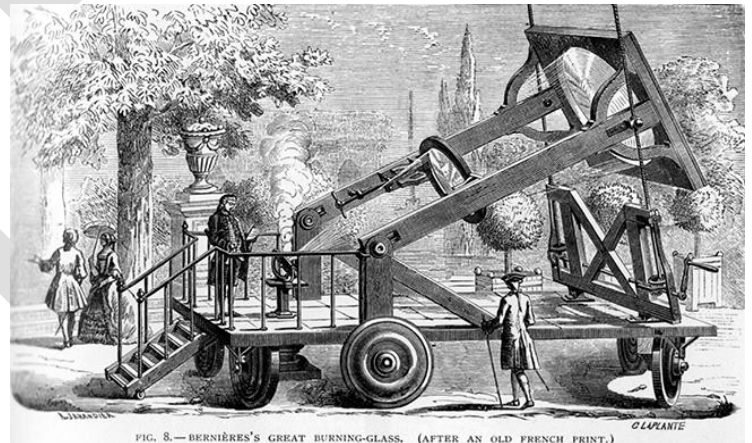


FIG. 8.—BERNIÈRES'S GREAT BURNING-GLASS. (AFTER AN OLD FRENCH PRINT.)

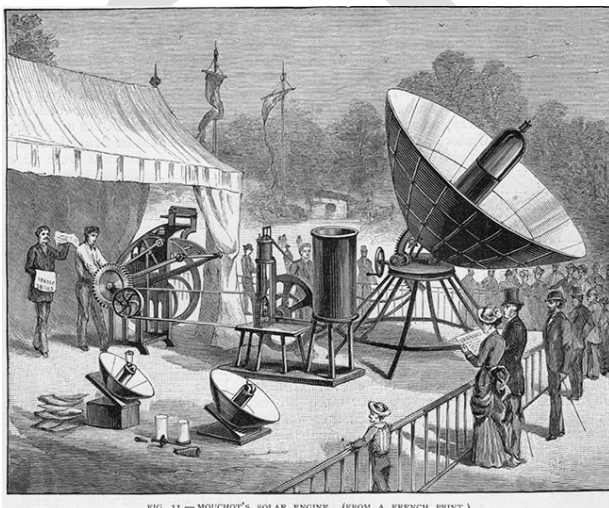


FIG. 11.—MOUCHOT'S SOLAR ENGINE. (FROM A FRENCH PRINT.)

4. Fill in the missing words.

In _____ at the _____ in Paris Augustin Mouchot demonstrated several solar powered _____ engines. A large parabolic _____ was used to collect and _____ the sun's _____ on a boiler which _____ a steam engine.

5. True, False or Not Given?

- _____ Ericsson improved on an earlier engine designed by Stirling.
- _____ Stirling / Ericsson engine is half as efficient as the ones used today in cars and trucks.
- _____ The Stirling / Ericsson engine is used today for powering ships.
- _____ As predicted by Langley, engines similar to the Stirling / Ericsson's are used commercially in the desert.