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7. The liquid fuel vaporizer and burner as recited in claim 5, wherein the vaporization pathway comprises a channel formed between two mated surfaces.

8. The liquid fuel vaporizer and burner as recited in claim 7, wherein the two mated surfaces are separable.

9. The liquid fuel vaporizer and burner as recited in claim 7, wherein the vaporization pathway comprises a channel formed between the screw threads of a screw and the mating threads of a mated surface, wherein the screw threads, the mating threads, or both are modified to provide the channel.

10. The liquid fuel vaporizer and burner as recited in claim 5, wherein the heater comprises an electrical heater.

11. The liquid fuel vaporizer and burner as recited in claim 5, wherein combustion in the combustion chamber delivers heat at a substantially steady rate for durations greater than approximately 30 minutes.

12. The liquid fuel vaporizer and burner as recited in claim 5, wherein vaporized fuel is jetted through a removable orifice into the combustion chamber.

13. The liquid fuel vaporizer and burner as recited in claim 12, wherein the removable orifice is accessible through separation of the two mated surfaces.

14. The liquid fuel vaporizer and burner of claim 5, wherein the liquid fuel is substantially completely vaporized.

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15. The liquid fuel vaporizer and burner of claim 5, wherein the combustion chamber is in thermal communication with the liquid vaporizer and at least a portion of the heat for vaporization is transferred from the combustion chamber.

16. The liquid fuel vaporizer and burner of claim 5, wherein the liquid comprises fuel oil.

17. The liquid fuel vaporizer and burner of claim 5, wherein the heater comprises a heat exchanger.

18. The liquid fuel vaporizer and burner as recited in claim 17, wherein the heat exchanger utilizes, at least in part, recirculated combustion gas in a controlled scheme from a combustion chamber, wherein the combustion chamber is in fluid communication with the liquid vaporizer.

19. The liquid fuel vaporizer and burner of claim 7, wherein the channel is curved to increase the vaporization pathway for heat transfer.

20. The liquid fuel vaporizer and burner of claim 9, wherein modifications to the threads comprise threads that have been truncated, notched, removed, or combinations thereof.

21. The liquid fuel vaporizer and burner as recited in claim 16, wherein the fuel oil is JP-8, diesel, or other low-volatility fuels.

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