

## Highly efficient 6-stroke engine cycle with water injection

### **Disclosure Number**

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### **Technology Summary**

The current invention describes an engine cycle to substantially increase the thermal efficiency of internal combustion piston engine. The increased efficiency is a result of recovering heat primarily from the engine exhaust gases, and also from the engine coolant. The recovered heat is converted to mechanical energy at the crank shaft by expanding steam in the engine combustion chamber. This form of in-cylinder waste heat recovery is accomplished by using a 6-stroke engine cycle and a unique set of valve events.

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