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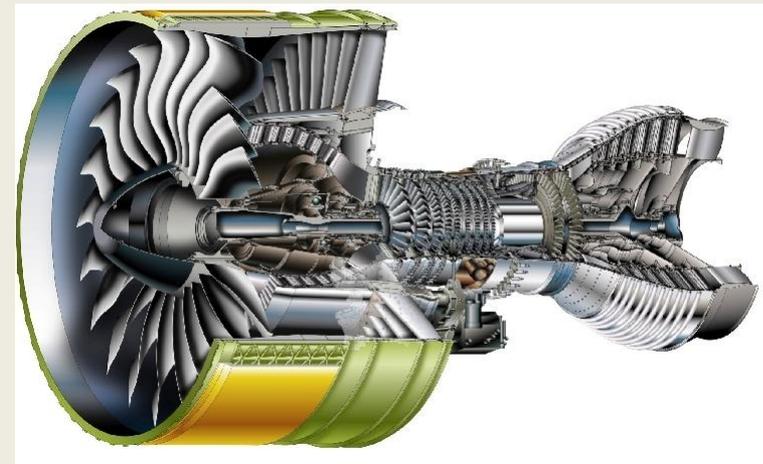
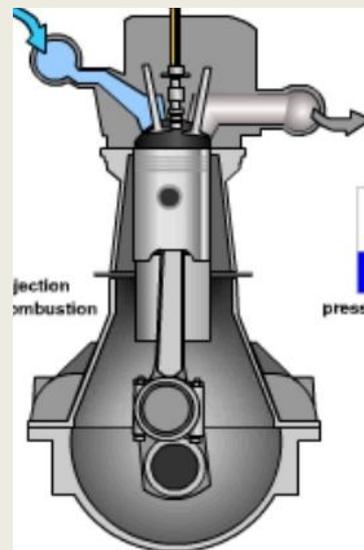
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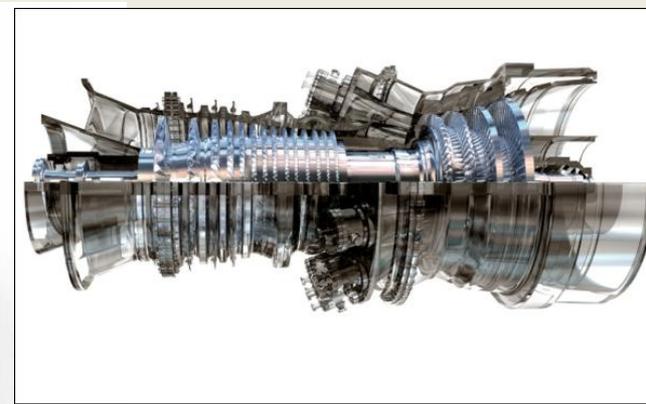
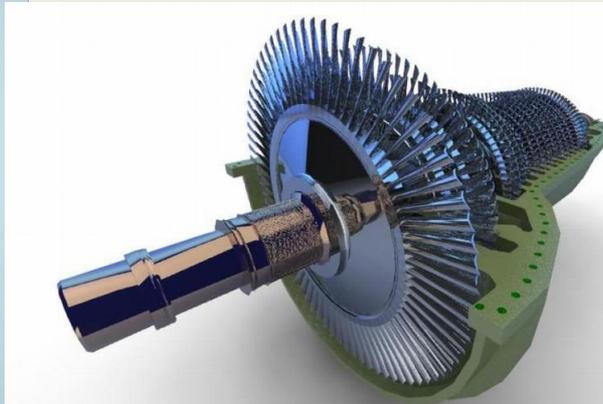
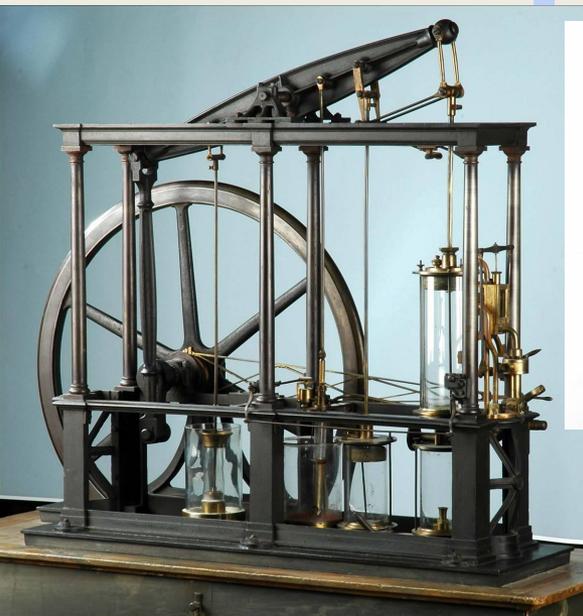
ДЖОУЛЬ

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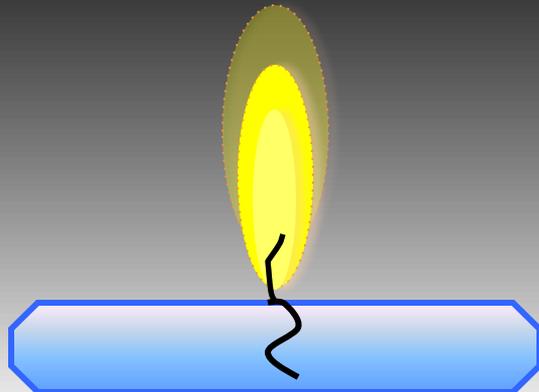
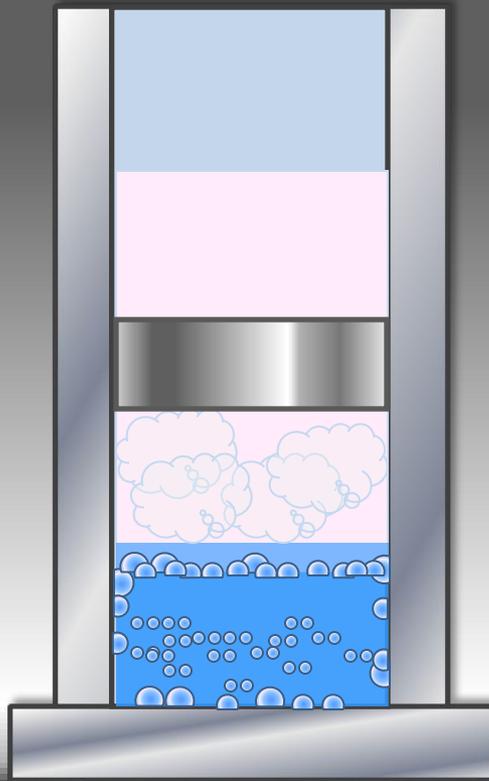
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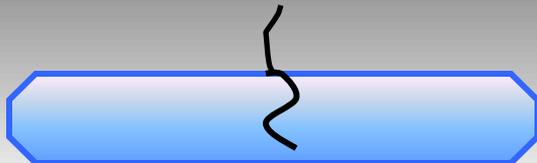
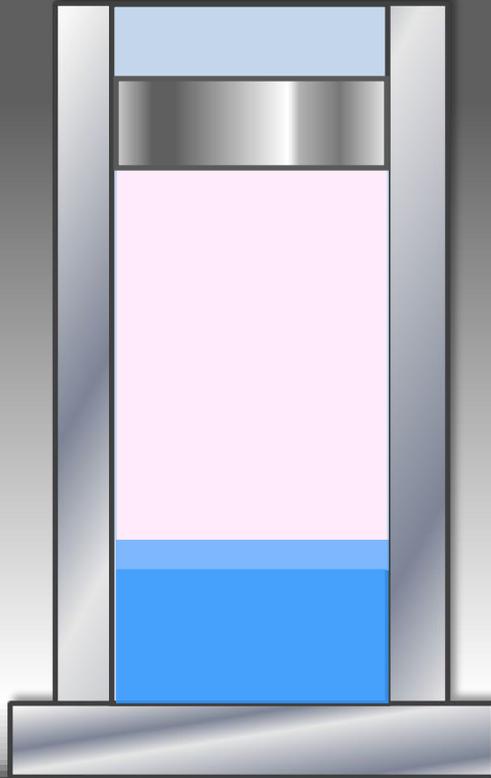


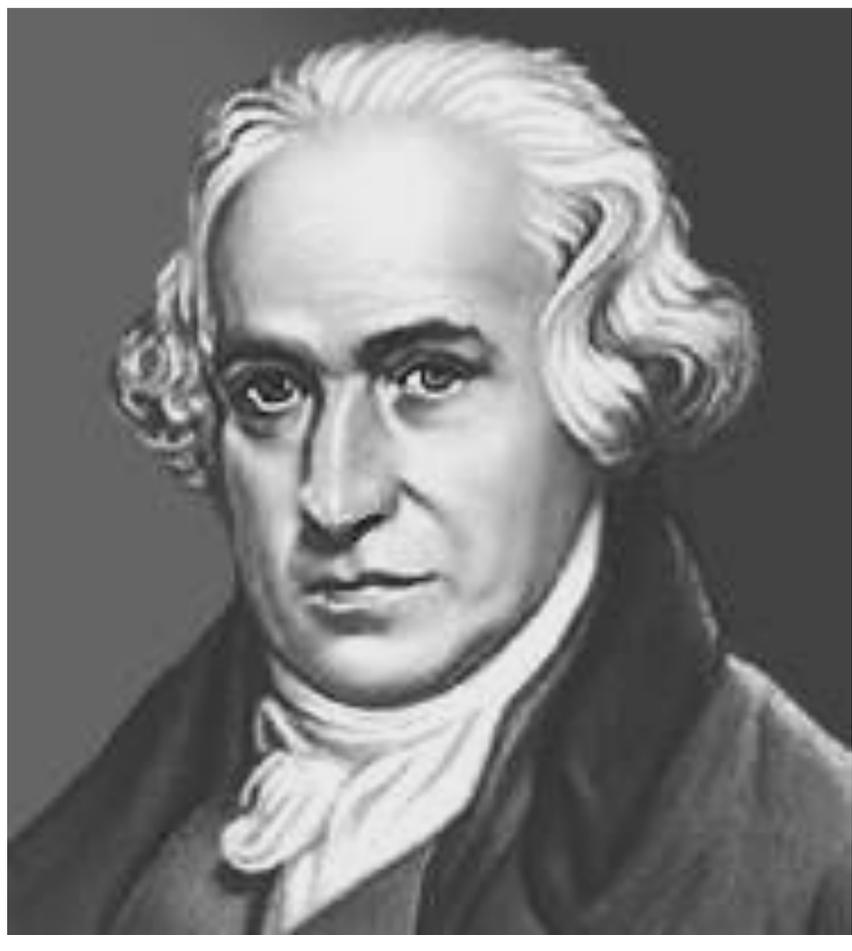
ТЕПЛОВЫЕ



**Тепловыми двигателями
называют машины, в
которых внутренняя
энергия топлива
превращается в
механическую энергию.**

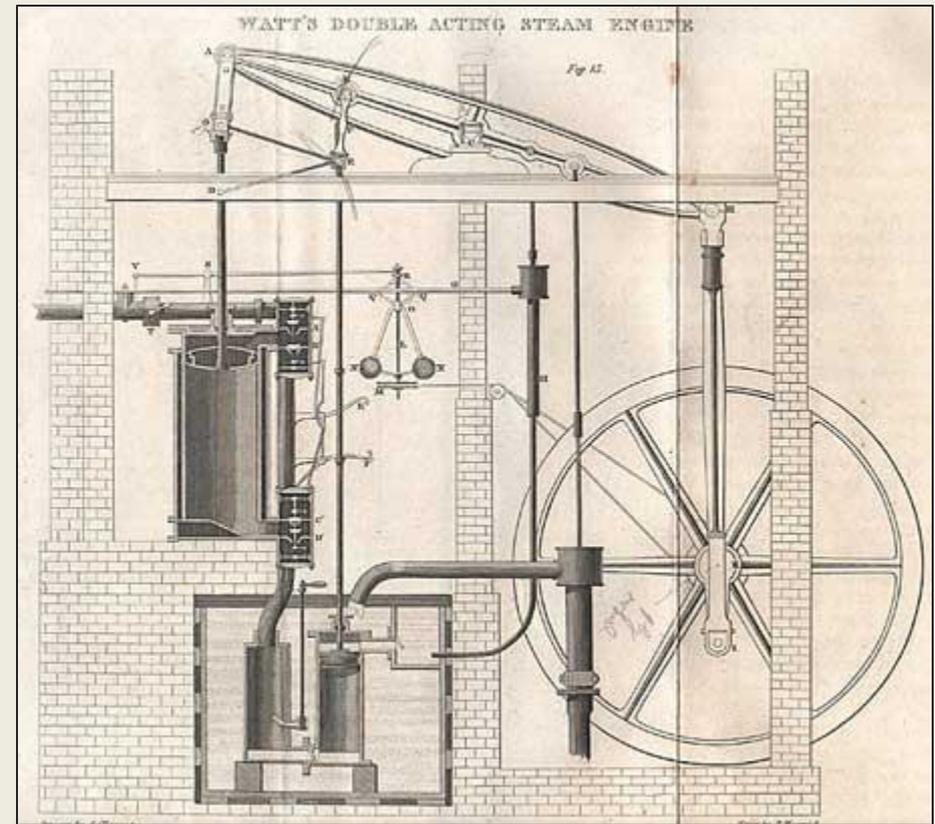






Джеймс Уатт

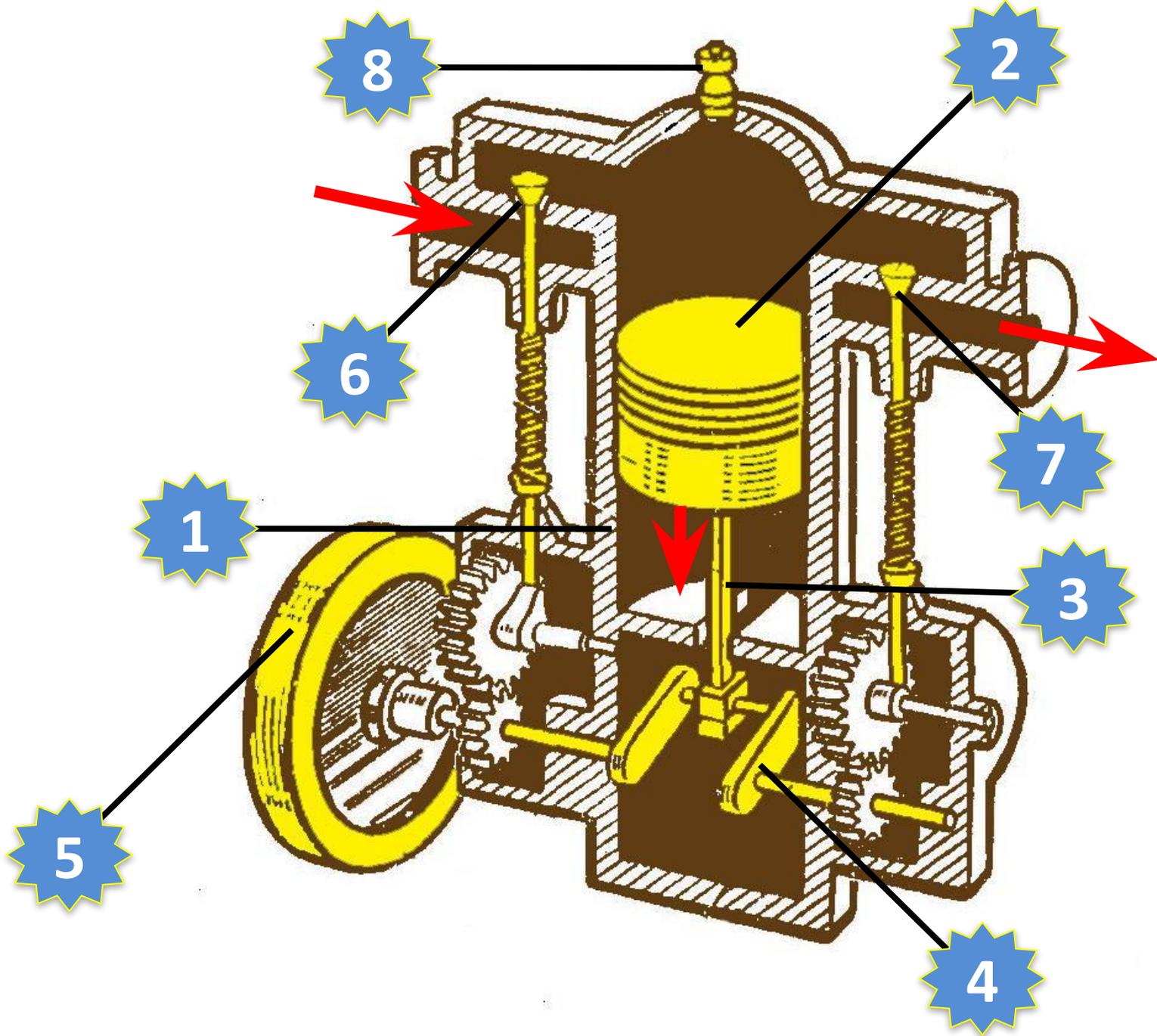
(1736-1819)



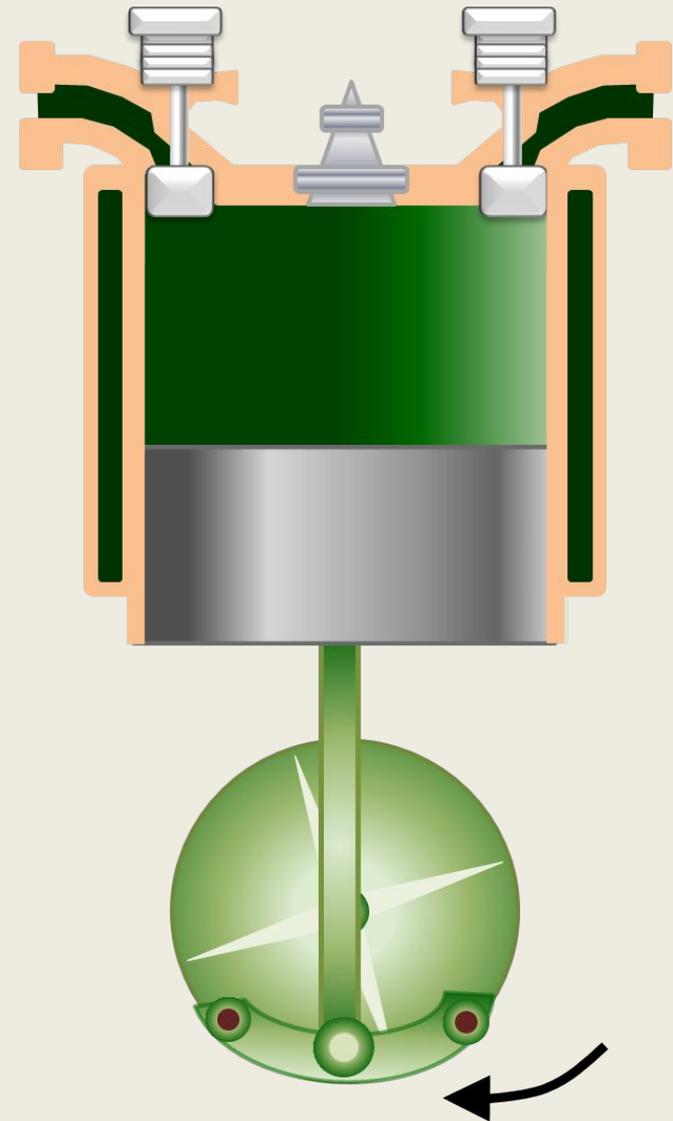
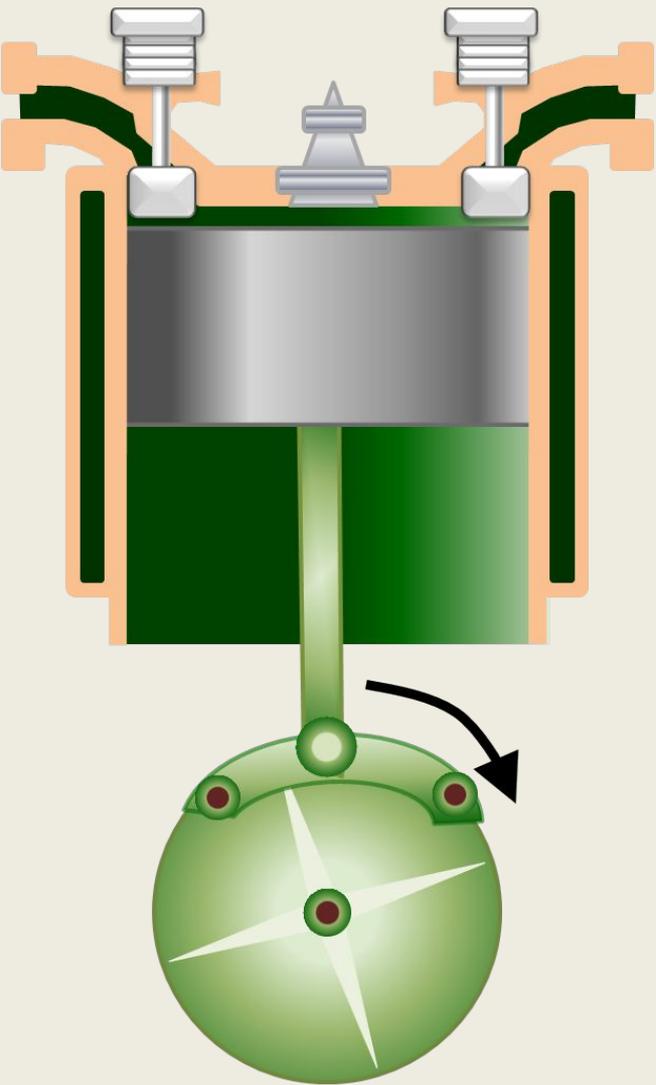
Паровая машина Уатта

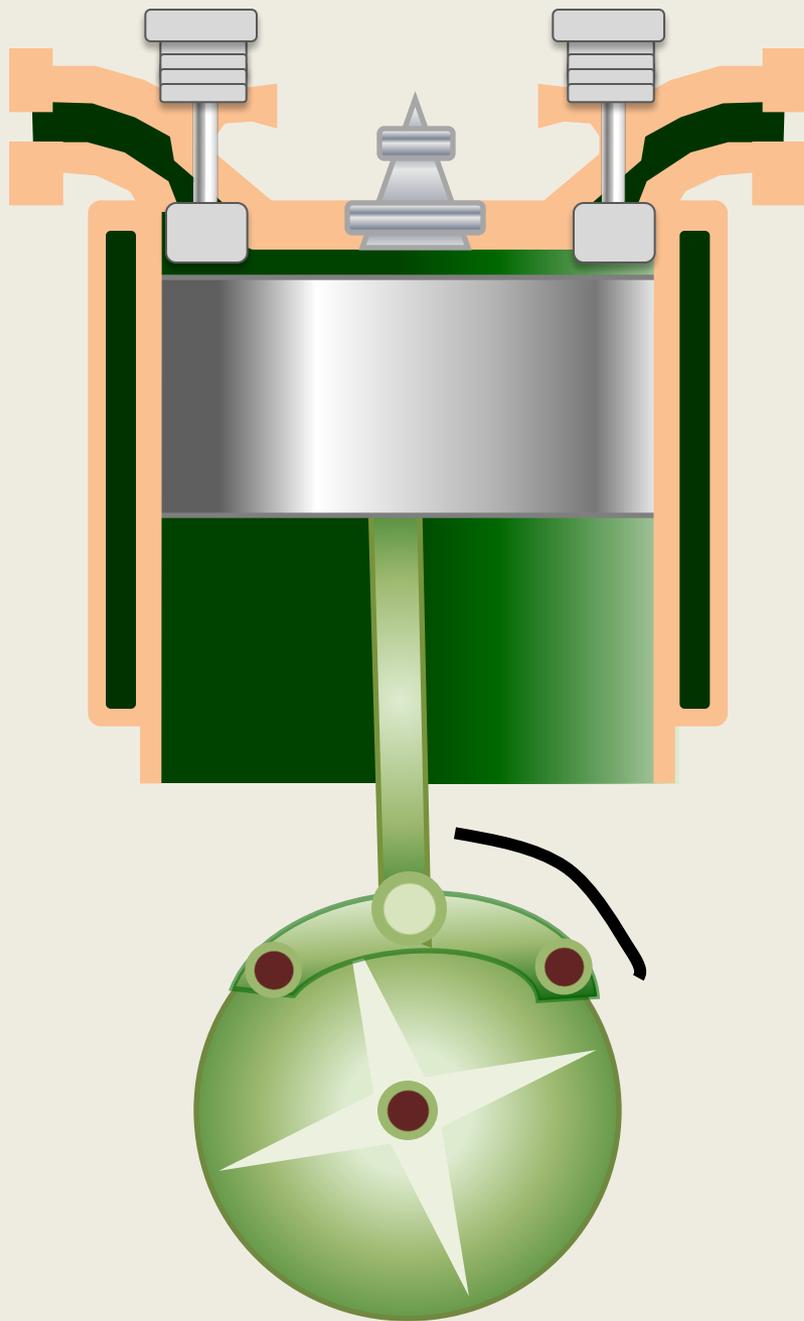
Классификация тепловых двигателей :



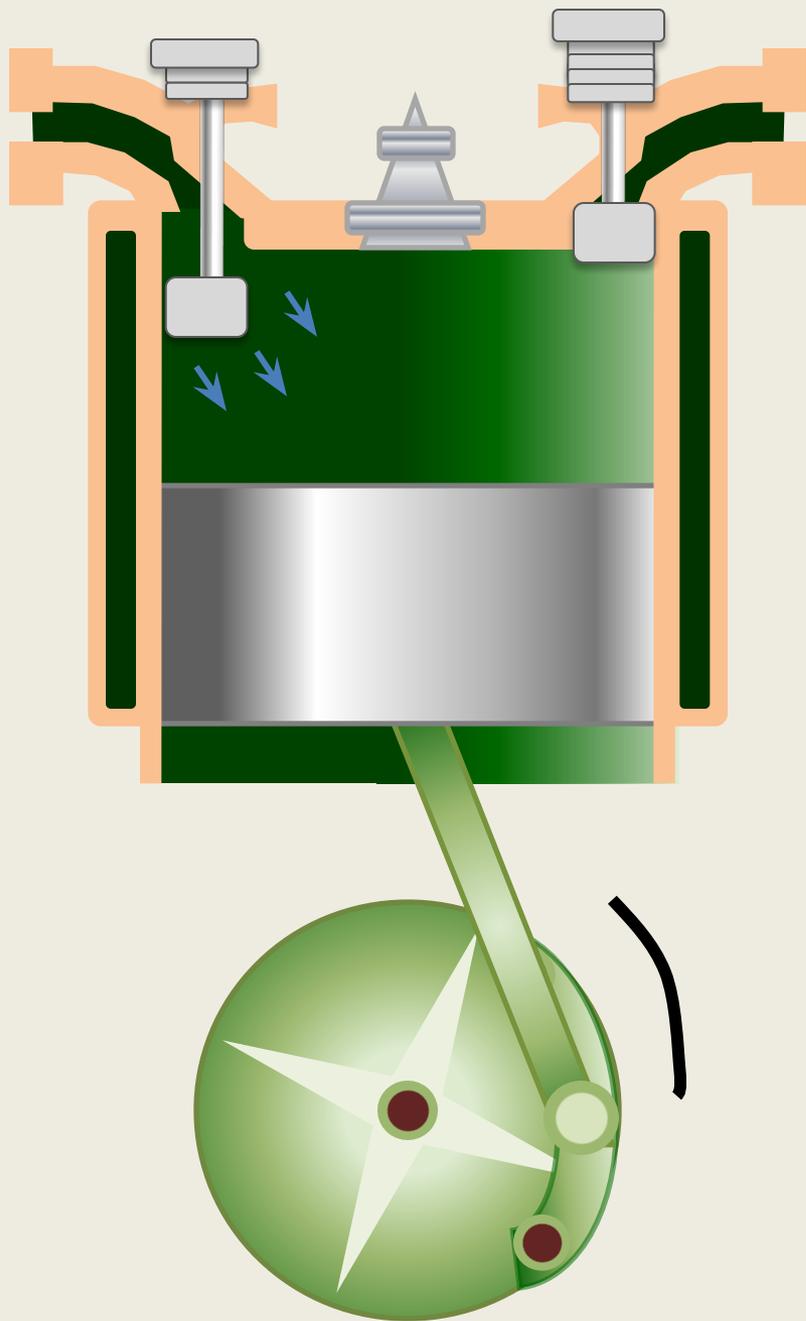


«МЁРТВЫЕ ТОЧКИ»

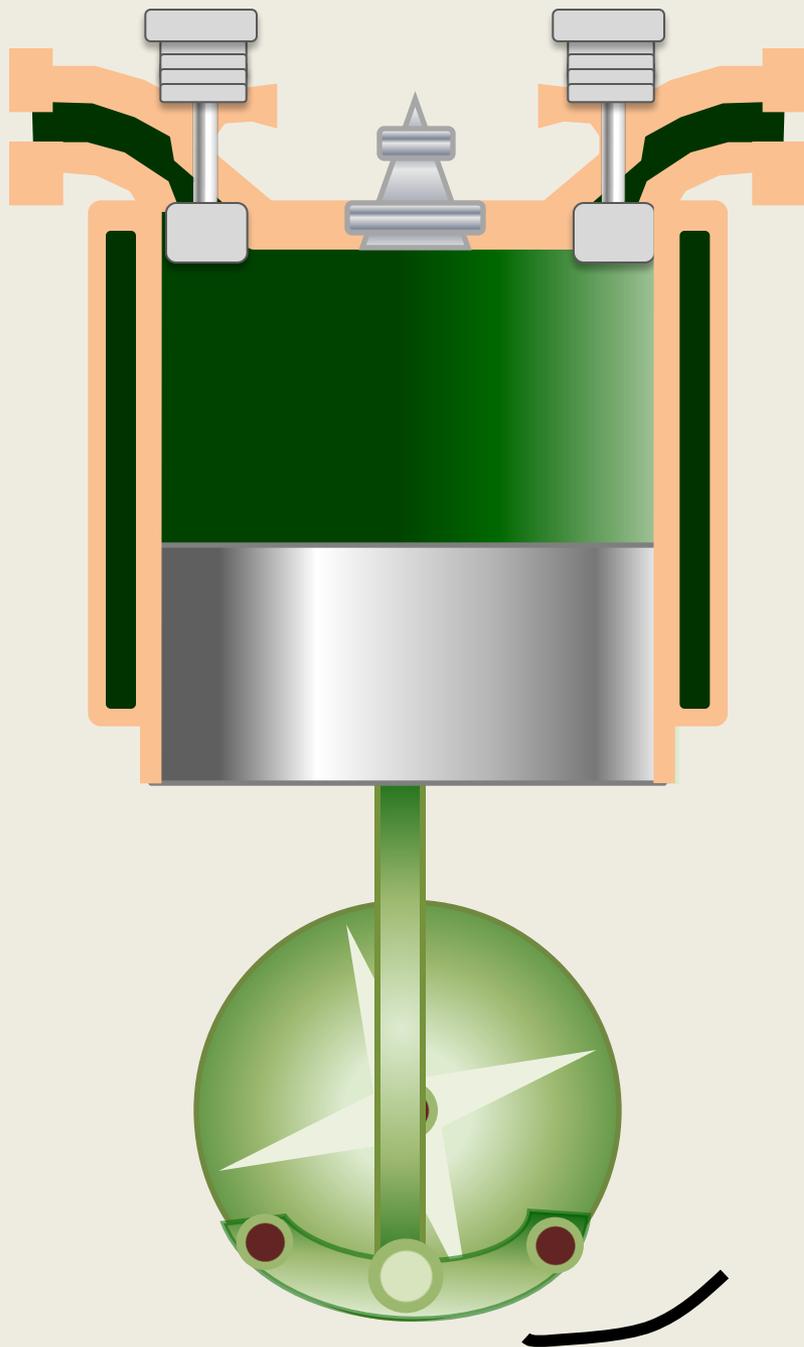




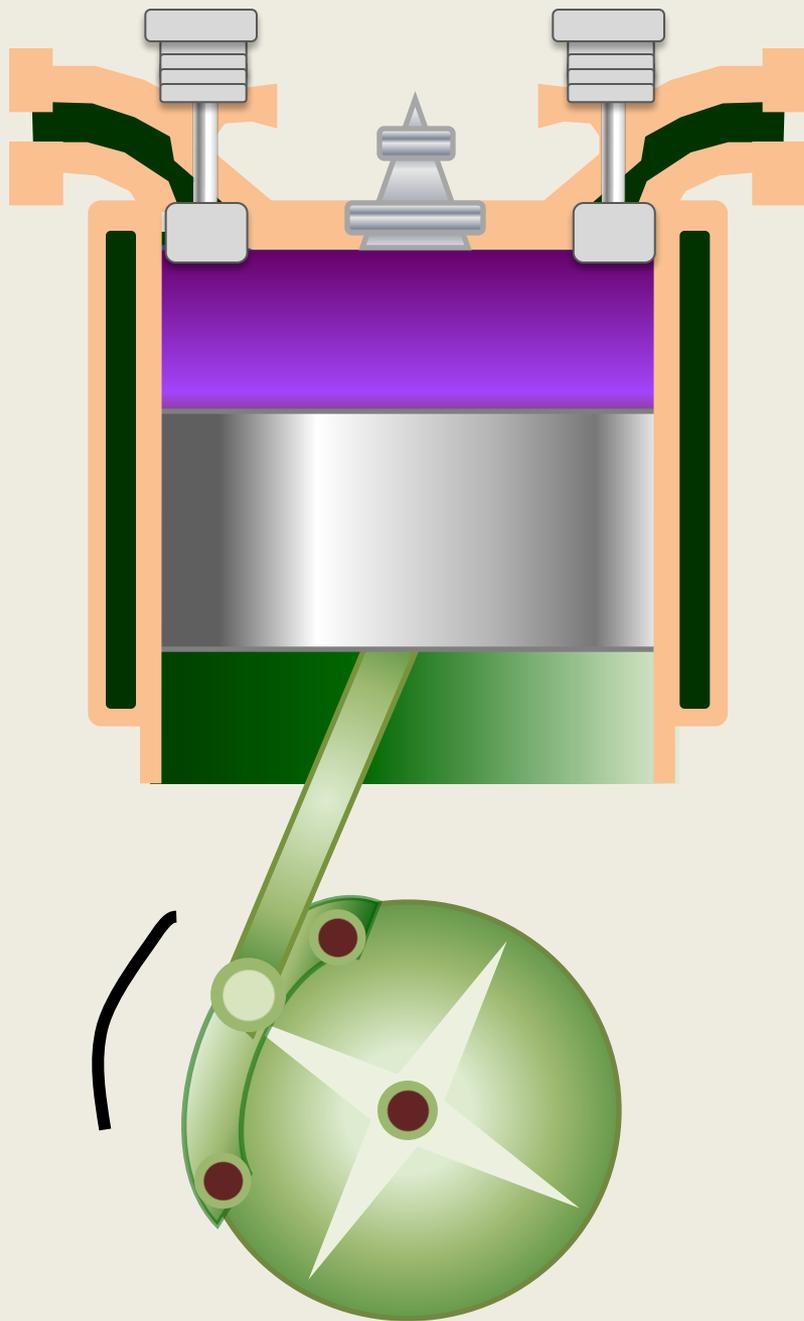
ПЕРВЫЙ
И
«ВПУСК
ТАКТИ
К»



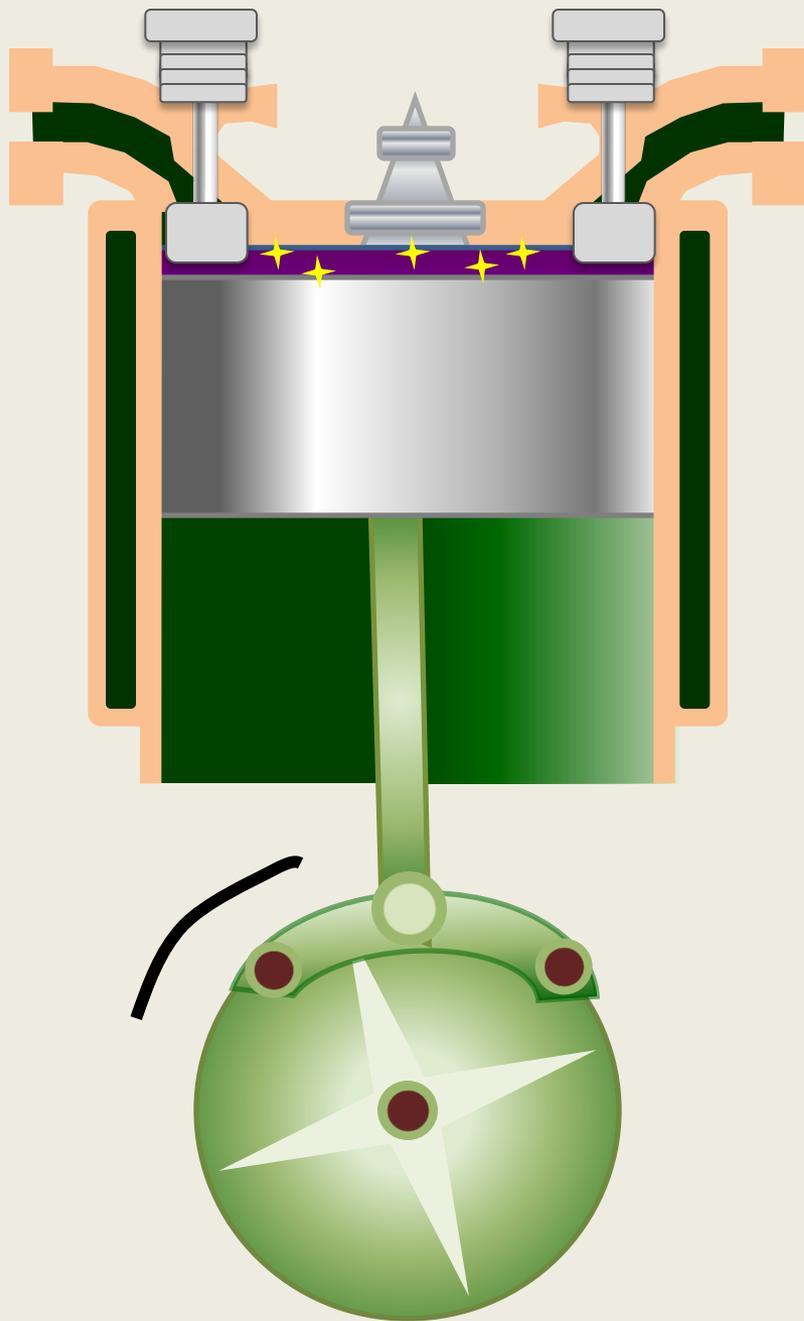
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К»



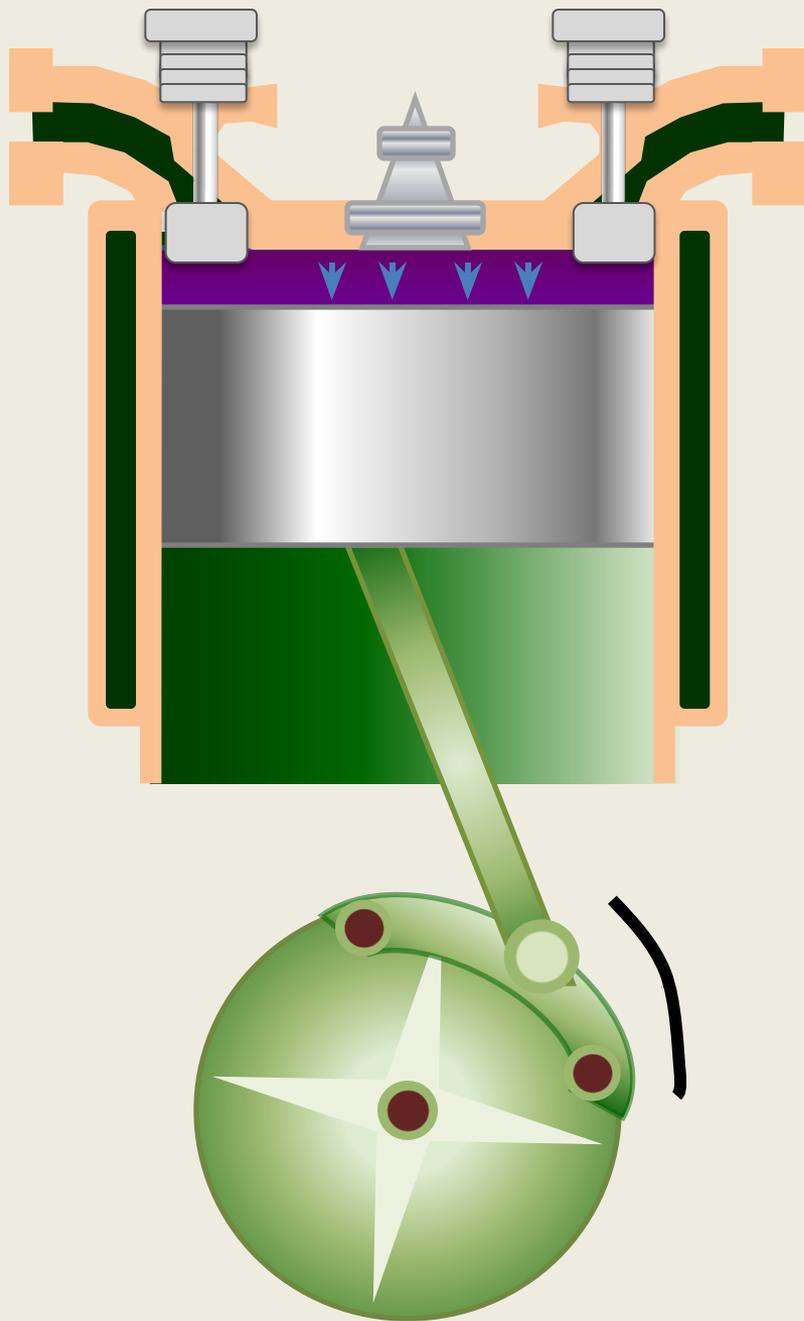
ПЕРВЫЙ
«СТАТУС
К»



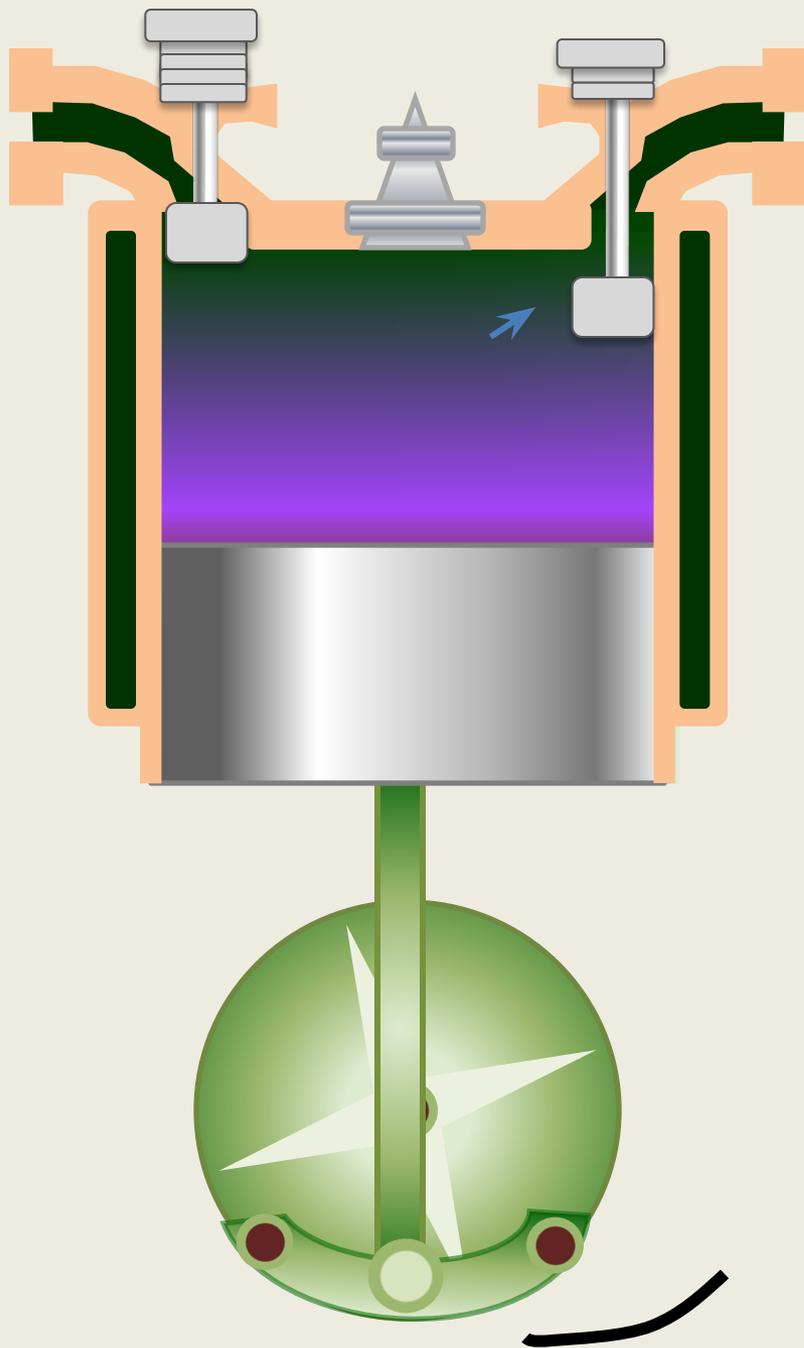
ВТОРО
Й
«СЖАТИ
Е»



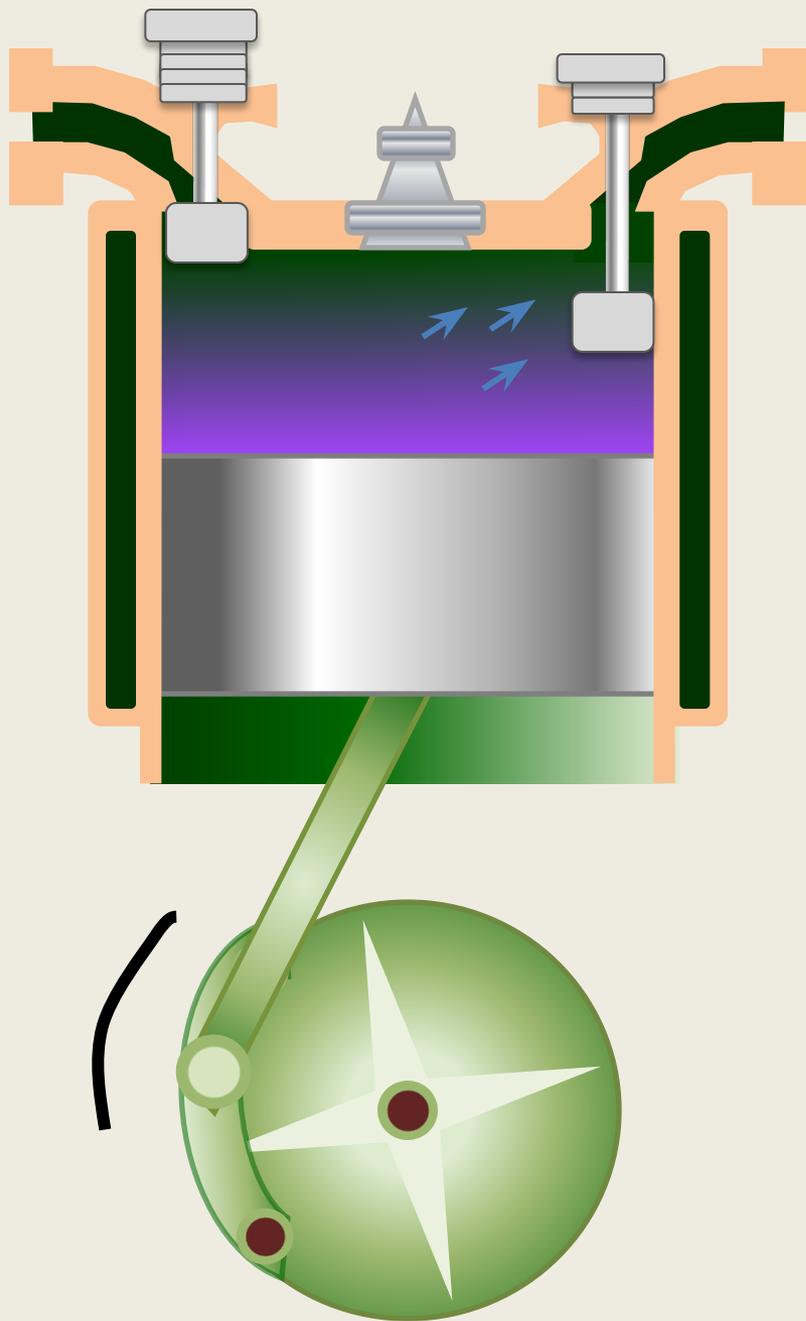
ВТОРО
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«СЖАТИ
Е»



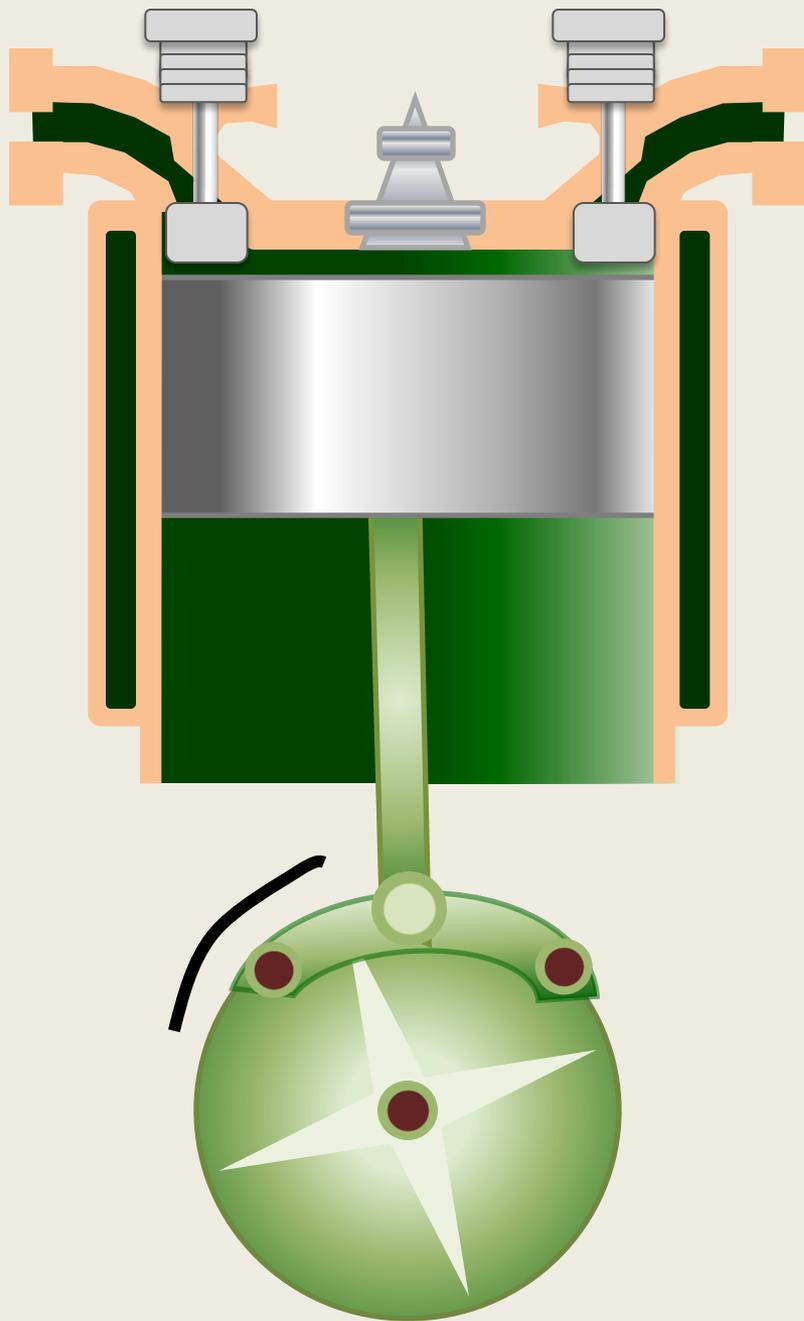
ТРЕТИ
Й
«РАБОЧ
ИЙ
ХОД»



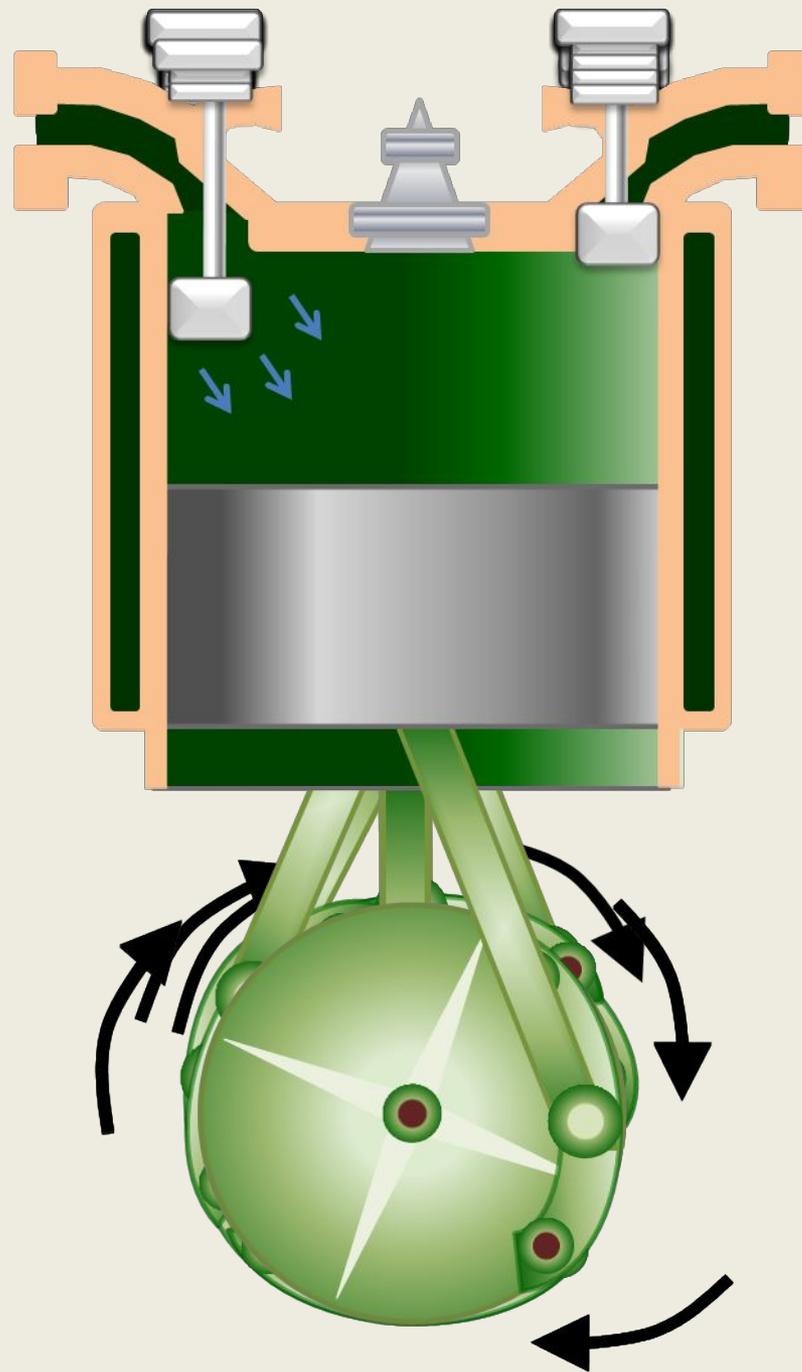
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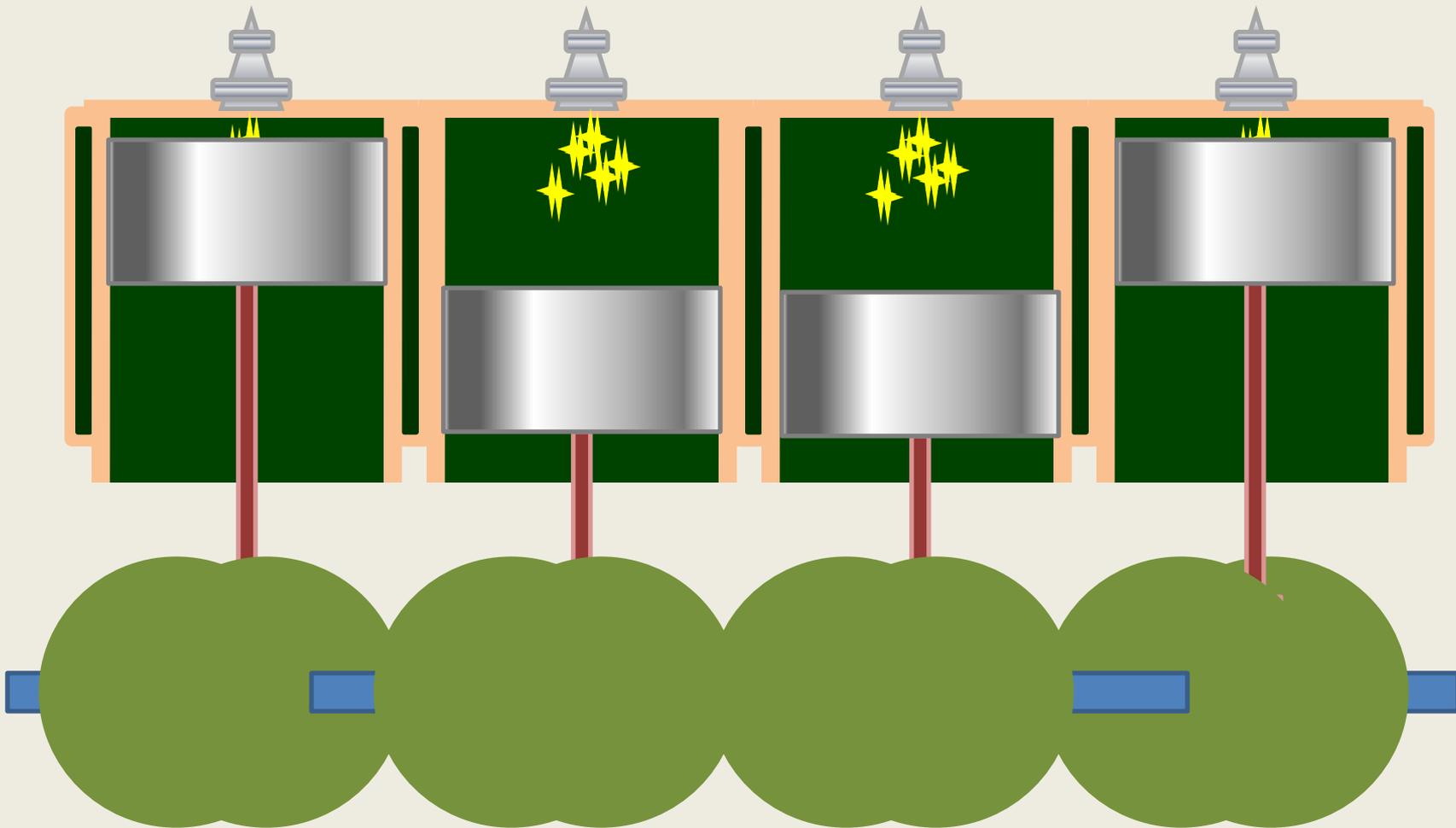


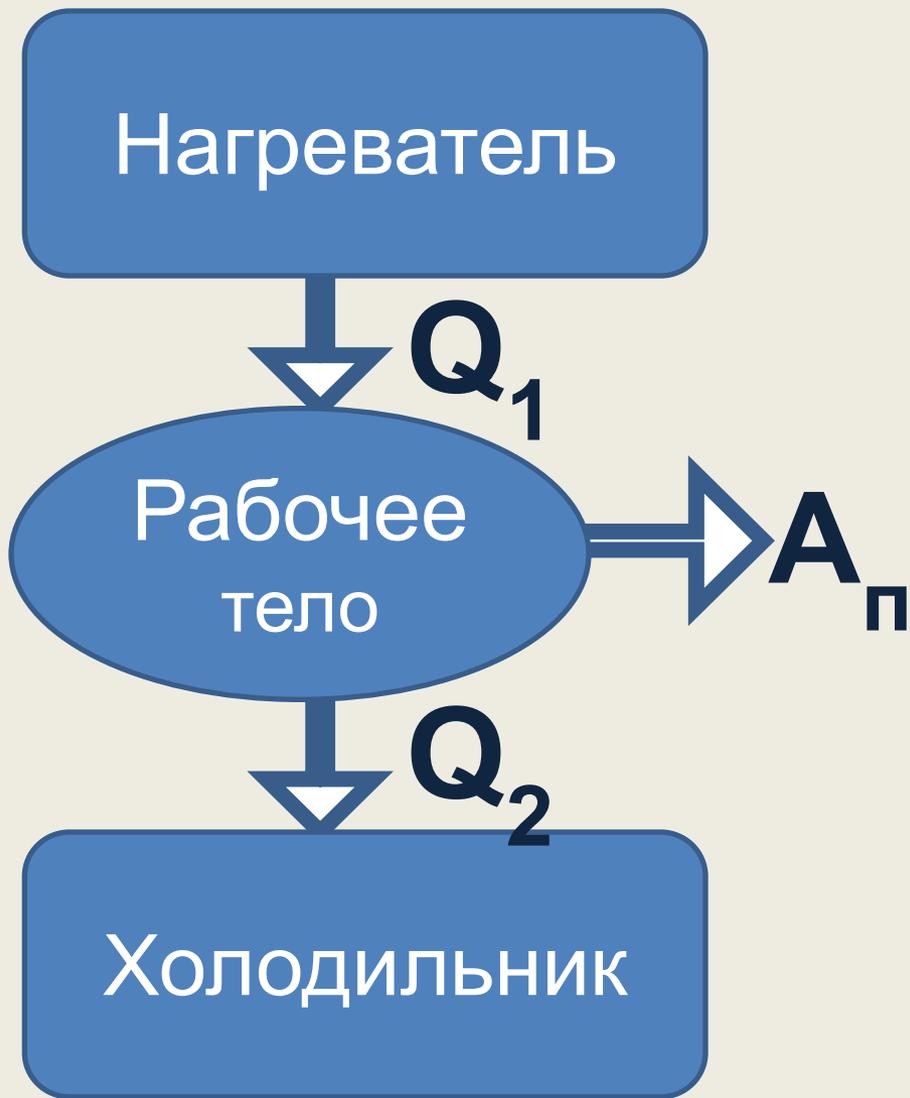
ЧЕТВЁРТ ЫЙ «ВЫПУС К»



ЧЕТВЁРТ ЫЙ «ВЫПУС ТАКТ К»







$$\eta = \frac{A_n}{Q_1}$$

$$A_n = Q_1 - Q_2$$

$$\eta = \frac{Q_1 - Q_2}{Q_1}$$