Title (en)
CONTINUOUS-FLOW HEATER

Publication
EP 0006215 B1 19810617 (DE)

Application
EP 79101903 A 19790612

Priority
DE 2825809 A 19780613

Abstract (en)
[origin: US4259928A] A continuous flow water heater utilizes a submersible pulsating heating mechanism. A continuous flow water heater is provided with a caldron which may be closed by means of a cover. The pulsating heating mechanism may be mounted to the caldron cover with the pulsating heating mechanism and the cover being readily removable. The pulsating heating mechanism extends downward into the caldron. The pulsating heating mechanism is formed by a vertically standing sound muffling air cylinder with an intake muffler, a combustion chamber and a pulsation pipe connected to the combustion chamber. The pulsation pipe exhausts into a cylindrically shaped substantially vertically mounted exhaust muffler cylinder mounted adjacent to the air cylinder within the caldron. The caldron may be made of a synthetic material as the highest temperature which it must withstand is that of the temperature of the water to be heated. The water to be heated enters from the bottom of the caldron, is heated by the air and exhaust cylinders as it rises, and is heated to its highest temperature near the top of the caldron where it exits by means of a pretzel-shaped pulsation pipe. The heating capacity may be doubled by using a second substantially identical pulsating heating mechanism which operates 180 DEG out of phase without increasing the volume of the exhaust cylinder.

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F24H 1/12

IPC 8 full level
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CPC (source: EP US)
F23C 15/00 (2013.01 - EP US); F24H 1/124 (2013.01 - EP US); F24H 9/1836 (2013.01 - EP US)

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