

Title (en)
Water heating apparatus.

Title (de)
Wassererhitzer.

Title (fr)
Chauffe-eau.

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Application
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Abstract (en)
The apparatus has a horizontal tunnel-like passage for hot combustion gases from a fuel burner (52) to a flue outlet (57). The passage is defined by several adjacent but discrete helical coils (59) each comprising from 3 to 12 turns of water conduit, such as copper tubing. A common source (54) feeds water separately to all the coils which in turn discharge heated water separately to a common outlet (55). In one embodiment, an additional outer set of coils (60), similarly connected, may create an annular space around the tunnel-like passage and an exterior water jacket (50) a second, outermost annular space. These spaces and the tunnel-like passage can be connected in various ways to impart series or parallel flow to the hot combustion gases therein. The apparatus is suitable for use in central heating systems.

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