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(54) Title: THERMAL POWER MACHINE HAVING A MOVING REGENERATOR

(57) Abstract

The invention relates to a thermal machine having a housing (2, 2a, 2a', 2b) which defines an operating space, an operating medium which is contained in the operating space, a heat source (6, 6') which is arranged in the housing (2, 2a, 2a', 2b) as well as a heat sink (5, 5') which is arranged in the housing (2, 2a, 2a', 2b), a regenerator (7, 7') which forms an intermediate heat store which is mounted such that it can move linearly in the operating space, and at least one operating piston (4, 13, 14, 20, 20', 25) which is acted on by the operating medium, for outputting mechanical power from the operating space, and for coupling mechanical power into the operating space. The invention provides that the operating piston (4, 13, 14, 20, 20', 25) is arranged in or on the housing (2, 2a, 2a', 2b) such that its compression movement is associated with a volume flow of the operating medium from the heat source to the heat sink, and its expansion movement is associated with a volume flow in the reverse direction, and the force resulting from the volume flow is used to drive the regenerator (7, 7').

