

Abstract**Magnetocaloric thermal appliance**

5 The invention relates to a magnetocaloric thermal appliance comprising three coaxial magnetic rotors (R1, R2, R3) rotatable about a rotational axis (R), provided with diametrically opposed magnetic poles (P), aligned with each other, and delimiting between each other air gaps located in two parallel air gap planes (PE1, PE2), two holders (S1, S2) for magnetocaloric elements (M11, M12, M15, M17, M18) located
10 in said air gap planes, and magnetocaloric elements (M11, M12, M15, M17, M18) carried by said two holders (S1, S2) and in fluidic communication with each other by means of at least one heat transfer fluid that circulates in determined fluidic loops (B1). Each fluidic loop (B1) is arranged for connecting two by two magnetocaloric elements (M11, M12; M17, M18) that belong respectively to the two holders (S1,
15 S2), said magnetocaloric elements connected two by two being in a same magnetic state and positioned in front of each other.

Figure 8.