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Södö et al. (43) **Pub. Date: Nov. 10, 2022**(54) **METHOD FOR COOLING A DEVICE SUCH AS AN ELECTRIC MOTOR DRIVE OR A GENERAL POWER CONVERTER AND DEVICE SUCH AS AN ELECTRIC MOTOR DRIVE OR A GENERAL POWER CONVERTER FOR PERFORMING THE COOLING METHOD****Publication Classification**(51) **Int. Cl.**
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CPC **H05K 7/20209** (2013.01); **H05K 7/2039** (2013.01); **H05K 7/20136** (2013.01); **H05K 7/20336** (2013.01)(71) Applicant: **Vacon Oy**, Vaasa (FI)(72) Inventors: **Nicklas Jan Anders Södö**, Vaasa (FI);
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(57) **ABSTRACT**

A method for cooling a device such as an electric motor drive or a general power converter, said device comprising a heatsink, electronic components connected to the heatsink, a heat pipe connected to the heatsink, an inlet air temperature measuring device and a cooling fan. According to the method, the drive establishes whether the inlet air temperature is below a first temperature threshold value and operates the cooling fan at a low inlet air temperature speed regime if the inlet air temperature is below the first temperature threshold value. The invention is also directed at a device such as an electric motor drive or a general power converter for performing the cooling method.

