

Title (en)  
HEAT GENERATING FABRIC COMPOSITION

Title (de)  
WÄRMEERZEUGENDE GEWEBEZUSAMMENSETZUNG

Title (fr)  
COMPOSITION DE TISSU THERMOGÈNE

Publication  
**EP 3761822 C0 20231108 (EN)**

Application  
**EP 19711690 A 20190311**

Priority  
• GB 201803811 A 20180309  
• GB 2019050662 W 20190311

Abstract (en)  
[origin: WO2019171084A1] A fabric composition for use in a garment, such as a maritime safety vest, which undergoes an exothermic reaction when in contact with water to produce heat and mitigate the effects of cold exposure from the water. The fabric composition comprises: at least one layer of fabric; a hydrateable metal compound (22a), such as  $MgCl_2 \cdot 2H_2O$  or  $Mg(ClO_4)_2$  having the general formula  $MX_a \cdot bH_2O$  (where b can be from 0 to 10) and  $X_a \cdot bH_2O$  usually includes at least one oxygen atom; and a metal oxide such as CaO having the chemical formula  $MdO$ . A series of semi-permeable bags containing, alternately, the hydrateable metal compound (22a) and the metal oxide (22b), may be provided between two layers of fabric (11,12). One further advantage of the fabric is that the reaction products are not gaseous or toxic and remain in an unchanged solid state.

IPC 8 full level  
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CPC (source: EP)  
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