

**“PROCESS FOR MANUFACTURING A COMPOSITE MATERIAL”****ABSTRACT**

5           A process for manufacturing a composite material comprising a functionalization of  
the substrate, which comprises treatment of said substrate with at least one first alcoholic  
solvent, functionalization of a first powder and formation of a first colloidal sol of said  
functionalized first powder in a second solvent, at least one application of a layer of said first  
colloidal sol of said first powder to the substrate, drying of said layer of said first colloidal sol  
10       and formation of a layer of first coating formed by said first colloidal sol, adherent to said  
substrate, by heating at a temperature above 50°C and below 500°C.

(Figure 1.a & Figure 1.b)