

Title (en)  
Power coating of wood-based products

Title (de)  
Pulverbeschichtung von auf Holz basierenden Erzeugnissen

Title (fr)  
Procédé pour le revêtement des objets à base de bois avec des revêtements en poudre

Publication  
**EP 0933140 A1 19990804 (EN)**

Application  
**EP 99300655 A 19990128**

Priority  
GB 9801897 A 19980130

Abstract (en)  
Medium density fibreboard (MDF) is powder coated by a method which comprises heating the board to an elevated temperature sufficient to increase the electrical conductivity at the surface of the board, passing the board through a powder coating zone in which a cloud of coating powder is sprayed onto the surface of the heated board so that a coating of powder is formed on the board by electrostatic attraction, and heating the coated product to a curing temperature, higher than said elevated temperature, to cause the coating to harden and bond with the surface of the board on cooling of the board to room temperature. The initial heating of the board is preferably such that the temperature of the board is within a range of 40 DEG C to 100 DEG C during coating of the product, and the curing temperature to which the coated board is heated is preferably no greater than 140 DEG C. Such a method is capable of applying a good quality homogenous powder coating to MDF in an economical manner and without degrading the board.

IPC 1-7  
**B05D 1/04**; **B05D 7/08**; **B05B 5/08**

IPC 8 full level  
**B05B 5/08** (2006.01); **B05D 1/04** (2006.01); **B05D 7/08** (2006.01); **B05B 5/16** (2006.01)

CPC (source: EP)  
**B05B 5/082** (2013.01); **B05D 1/045** (2013.01); **B05D 7/08** (2013.01); **B05B 5/1683** (2013.01)

Citation (search report)

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**EP 99300655 A 19990128**; GB 9801897 A 19980130; GB 9901864 A 19990129