

Title (en)  
DE-ICING DEVICE FOR A WING STRUCTURE

Publication  
**EP 0188160 B1 19910605 (FR)**

Application  
**EP 85402600 A 19851223**

Priority  
FR 8419801 A 19841226

Abstract (en)  
[origin: US4737618A] An electric resistance element (1) in a device for deicing a wing structure such as the wing of an aircraft or the blades of a helicopter, which includes conducting fibers embedded in a composite fiber structure and power supply wires connected electrically to said conducting fibers. In this element, the conducting fibers are carbon fibers in the form of at least one ribbon (2) in which the fibers are oriented longitudinally, preimpregnated with resin and at least one end of which is fixed in a deformable tubular metal mesh element (3) providing the electric connection by contact with the ribbon and which in turn is soldered to the corresponding power supply wire (4).

IPC 1-7  
**H05B 3/00**; **H05B 3/14**; **H05B 3/36**

IPC 8 full level  
**B64D 15/12** (2006.01); **H05B 3/06** (2006.01); **H05B 3/14** (2006.01); **H05B 3/36** (2006.01)

CPC (source: EP US)  
**H05B 3/06** (2013.01 - EP US); **H05B 3/145** (2013.01 - EP US); **H05B 3/36** (2013.01 - EP US); **H05B 2203/005** (2013.01 - EP US); **H05B 2203/007** (2013.01 - EP US); **H05B 2203/011** (2013.01 - EP US); **H05B 2203/014** (2013.01 - EP US); **H05B 2203/017** (2013.01 - EP US); **H05B 2214/02** (2013.01 - EP US)

Cited by  
EP0427619A3; EP2667025A1; CN105050216A; FR2719182A1; ITBO20120382A1; EP0506521A1; FR2674720A1; EP0717585A1; FR2728395A1; USD911038S; US9669937B2; US10925119B2; US10841980B2; WO2009095335A3; WO2017032803A1

Designated contracting state (EPC)  
DE GB IT

DOCDB simple family (publication)  
**EP 0188160 A1 19860723**; **EP 0188160 B1 19910605**; CA 1258481 A 19890815; DE 3583133 D1 19910711; FR 2578377 A1 19860905; FR 2578377 B1 19880701; IN 165810 B 19900113; JP H0747400 B2 19950524; JP S61157495 A 19860717; US 4737618 A 19880412

DOCDB simple family (application)  
**EP 85402600 A 19851223**; CA 498683 A 19851227; DE 3583133 T 19851223; FR 8419801 A 19841226; IN 1078DE1985 A 19851218; JP 29240485 A 19851226; US 81319785 A 19851224