

TECHNOLOGY AVAILABLE FOR LICENSING



**University of
Dayton**

Method of Making Conductive Metal-Containing Polymer Fibers and Sheets

Advantages:

- Ability to make highly conductive, lightweight sheets and structures
- Sheets display high fatigue resistance

Applications:

- Aerospace
- Any lightweight application for conductive materials

Description:

The invention is a highly conductive metal-containing polymer fiber or sheet made by immersing a polymer in a solution containing a metal precursor selected from organic or inorganic salts of copper, silver, aluminum, gold, iron and nickel. The metal precursor is then reduced by chemical, electrochemical, or thermal means such that conductive metal is incorporated into the polymer. What results is a highly conductive, lightweight, polymer fiber or sheet.

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