

Title (en)

Method for producing oxidized filaments.

Title (de)

Verfahren zur Herstellung von oxidierten Fasern.

Title (fr)

Méthode de préparation de filaments oxydés.

Publication

EP 0301915 A2 19890201 (EN)

Application

EP 88307084 A 19880801

Priority

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Abstract (en)

In a method for producing oxidized filaments (102) by treating precursor filaments (101) in a bed (5a) fluidized by an oxidizing gas and heat treating the precursor filaments (101) in the fluidized bed (5a), the fluidized bed (5a) is formed with heat-medium particles (5), not less than 80% by weight of which are of solid particles each having a particle diameter of not greater than 10 mesh, and the oxidation is carried out under optimum conditions within an optimum range of the treatment temperatures, an optimum range of depths H of the fluidized bed (5a) and an optimum gas speed of the oxidizing gas. By the method, the period of time required for the oxidation can be greatly shortened and oxidized filaments (102) having excellent characteristics can be obtained. Furthermore, where the oxidized filaments thus obtained are carbonized, carbon fibers having excellent mechanical properties can be produced.

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