

Title (en)

Shrinkproof animal fiber

Title (de)

Schrumpffeste tierische Fasern

Title (fr)

Fibres animales non-rétrécissantes

Publication

EP 1176245 B1 20041208 (EN)

Application

EP 01117262 A 20010717

Priority

- EP 01117262 A 20010717
- EP 00125723 A 20001124
- JP 2000225174 A 20000726
- JP 2001057004 A 20010301

Abstract (en)

[origin: EP1176245A1] The present invention provides an animal fibers having improved shrink proofing and pilling resistance properties and method for preparation thereof. An animal fiber having excellent shrink proofing and pilling resistance and retaining its original water repellency is also provided. A method of treating animal fiber in which a surface layer part of animal fiber is primary-oxidized in advance with an oxidizer, and aqueous treatment liquid containing ozone in the form of ultrafine bubbles of 5 mu or less is allowed to collide against the fiber by blowing the liquid on the fiber in the aqueous treatment solution, and then, the fiber is treated with a reducing agent. Particularly, the above-mentioned method for treating animal fiber in which ultrafine bubbles of ozone are formed by using a line mixer. The method in which an apparatus which collects the ultrafine ozone bubbles in aqueous treatment liquid on the fiber is used so that the bubbles are not scattered out of a treatment reaction bowl.

IPC 1-7

D06M 11/34; D06M 23/00; D06M 13/196; D06M 11/50; D06M 11/54

IPC 8 full level

D06B 3/02 (2006.01); D06M 11/34 (2006.01); D06M 11/50 (2006.01); D06M 11/54 (2006.01); D06M 13/196 (2006.01); D06M 23/00 (2006.01)

CPC (source: EP)

D06B 3/02 (2013.01); D06M 11/34 (2013.01); D06M 11/50 (2013.01); D06M 11/54 (2013.01); D06M 13/196 (2013.01); D06M 23/00 (2013.01); D06M 2101/12 (2013.01); D06M 2200/35 (2013.01); D06M 2200/45 (2013.01)

Cited by

EP2362013A4; CN113474508A; AU2003203342B2; EP1348794A3; US6964182B2; WO2007017668A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1176245 A1 20020130; EP 1176245 B1 20041208

DOCDB simple family (application)

EP 01117262 A 20010717