

Title (en)

Underwear comprising fiber containing metal.

Title (de)

Unterwäsche aus Metall enthaltenden Fasern.

Title (fr)

Sous-vêtement réalisé à partir de fibres comportant du métal.

Publication

**EP 0582768 A1 19940216 (EN)**

Application

**EP 93101478 A 19930130**

Priority

JP 21355892 A 19920716

Abstract (en)

This invention relates to underwear comprising the fiber containing metal, which comprises fiber materials mixed-spun with 2-50% polyurethane elastic fiber to which at least one of metal oxides selected from alumina, silica, and titania, as well as platinum are mixed as essential components, where in, because metal oxides are mixed in the polyurethane elastic fiber with expandability, electromagnetic radiation (far infrared radiation) liberated from the metal oxides are emitted nearly in close contact with the human body, permitting electromagnetic radiation (far infrared radiation) to work effectively on the contact feeling at the wearing portion as well as when the underwear is put on and thermal conductivity while it is worn, and enabling manifestation of an extremely excellent heat-retaining effect.

IPC 1-7

**A41B 17/00**; **A41B 9/00**

IPC 8 full level

**A41B 9/12** (2006.01); **A41B 9/00** (2006.01); **A41B 17/00** (2006.01); **A61N 5/06** (2006.01); **D01F 1/10** (2006.01); **D01F 6/94** (2006.01)

CPC (source: EP KR)

**A41B 9/00** (2013.01 - EP KR); **A41B 17/00** (2013.01 - EP)

Citation (search report)

- [A] FR 1594246 A 19700601
- [X] DATABASE WPI Week 9216, Derwent World Patents Index; AN 92-128857
- [X] DATABASE WPI Week 9149, Derwent World Patents Index; AN 91-358561
- [E] DATABASE WPI Week 9320, Derwent World Patents Index; AN 93-165022
- [A] DATABASE WPI Week 9241, Derwent World Patents Index; AN 92-336108

Cited by

EP2955254A4; GB2303375A; GB2303375B; DE10057875A1; CN110424078A; FR2744340A1; BE1011023A5; WO2011059937A3

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IE IT LI NL SE

DOCDB simple family (publication)

**EP 0582768 A1 19940216**; **EP 0582768 B1 19961023**; AT E144381 T1 19961115; CA 2087786 A1 19940117; DE 69305595 D1 19961128; DE 69305595 T2 19970313; JP 2585167 B2 19970226; JP H0641802 A 19940215; KR 100237717 B1 20000115; KR 940001830 A 19940216

DOCDB simple family (application)

**EP 93101478 A 19930130**; AT 93101478 T 19930130; CA 2087786 A 19930121; DE 69305595 T 19930130; JP 21355892 A 19920716; KR 930003878 A 19930315