

Title (en)
Cooling garment

Title (de)
Kühlendes Kleidungsstück

Title (fr)
Vêtement de refroidissement

Publication
EP 2236048 A1 20101006 (EN)

Application
EP 09157815 A 20090410

Priority
US 39817209 A 20090404

Abstract (en)
A cooling garment has a garment body covered by a length of tubing, and a cooling unit that circulates a cooling fluid through the length of tubing via the pair of connector/valve assemblies. Each connector/valve assembly has a first valve housing with a tubing connector adapted to operably engage an inlet or outlet end of the tubing, and a first connector. The connector/valve assembly further includes a first valve element for controlling fluid flow from the tubing connector, through the first valve housing, to the first connector. A second valve housing having a unit connector is adapted to operably engage the cooling unit, and a second connector is adapted to operably engage the first connector of the first valve housing. A second valve element is provided for controlling fluid flow from the second connector, through the second valve housing, to the second connector.

IPC 8 full level
A41D 13/005 (2006.01)

CPC (source: EP)
A41D 13/0053 (2013.01)

Citation (applicant)

- US 3743012 A 19730703 - LAXO D
- US 2007085340 A1 20070419 - GAMMONS CLIFFORD E [US]
- US 6349412 B1 20020226 - DEAN W CLARK [US]
- US 6109338 A 20000829 - BUTZER MELISSA J [US]
- US 4998415 A 19910312 - LARSEN JOHN D [US]
- US 4738119 A 19880419 - ZAFRED PAOLO R [US]
- US 5320164 A 19940614 - SZCZESUIL STEPHEN P [US], et al
- US 6942015 B1 20050913 - JENKINS DONNY RAY [US]
- US 2003167559 A1 20030911 - HOW HOTON [US], et al
- US 5533354 A 19960709 - PIRKLE FRED L [US]
- US 5755275 A 19980526 - ROSE JOSEPH LORNEY [CA], et al
- US 6584798 B2 20030701 - SCHEGERIN ROBERT [FR]
- US 6979382 B2 20051227 - SZCZESUIL STEPHEN P [US], et al
- US 5214926 A 19930601 - MANDIN CYRIL [FR], et al
- US 3630039 A 19711228 - HAYASHI TOSHIYUKI
- US 5970519 A 19991026 - WEBER STANLEY [US]
- US 7117687 B2 20061010 - NAAMAN CHIBBI [IL]
- US 6901608 B2 20050607 - SZCZESUIL STEPHEN P [US], et al
- US 4286439 A 19810901 - PASTERNAK ADALBERT
- US 5484448 A 19960116 - STEELE SANDRA L [US], et al
- US 6260201 B1 20010717 - RANKIN MARK J [US]

Citation (search report)

- [DX] US 2007085340 A1 20070419 - GAMMONS CLIFFORD E [US]
- [X] US 2004079517 A1 20040429 - BUELEY DOUG [CA], et al
- [X] US 6349412 B1 20020226 - DEAN W CLARK [US]
- [DA] US 6942015 B1 20050913 - JENKINS DONNY RAY [US]
- [A] EP 1080648 A2 20010307 - FISHER & PAYKEL [NZ]

Cited by
GB2519938A; CN108523272A; WO2015022565A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

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