

Title (en)

METHOD, APPARATUS AND SYSTEM FOR ASSESSING HAIR CONDITION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DES HAARZUSTANDES

Title (fr)

PROCEDE, APPAREIL ET SYSTEME DESTINES A DETERMINER L'ETAT DES CHEVEUX

Publication

**EP 1320324 A2 20030625 (EN)**

Application

**EP 01975777 A 20010924**

Priority

- GB 0023472 A 20000925
- US 0142265 W 20010924

Abstract (en)

[origin: WO0224071A2] Method for measuring friction in a hair sample, comprising: (a) providing a friction member; (b) drawing it through the hair, generating a frictional noise signal; and (c) capturing the signal by a noise sensor. Device suitable for use in said method, comprising comb means having a plurality of tines and a noise sensor arranged to capture frictional noise generated by passage of comb means through the hair. System for assessing the level of damage in a hair sample, comprising: (a) defining hair categories; (b) associating with each category a standard trace representative of the frictional noise signal generated when a standard sample in that category is subjected to said method; (c) assigning the sample to one of the categories; (d) carrying out said method on the sample; (e) visually displaying the frictional noise signal generated as a trace; (f) and comparing the sample's trace with the standard trace associated with the category.

IPC 1-7

**A61B 5/107**; **G01N 19/02**

IPC 8 full level

**G01N 33/50** (2006.01); **A61B 5/107** (2006.01); **A61B 7/00** (2006.01); **G01N 19/02** (2006.01); **G01N 29/00** (2006.01); **G01N 33/483** (2006.01); **G01N 33/48** (2006.01)

CPC (source: EP)

**A61B 5/1072** (2013.01); **A61B 5/448** (2013.01); **A61B 7/00** (2013.01); **G01N 19/02** (2013.01); **G01N 33/4833** (2013.01); **G01N 2291/015** (2013.01); **G01N 2291/2626** (2013.01)

Citation (search report)

See references of WO 0224071A2

Citation (examination)

W.C. Waggoner et al.; "Instrumental Method for the Determination of Hair Raspieness", J. Soc. Cosmetic Chemists, 1966, Vol. 17, pages 171-179

Citation (third parties)

Third party :

- US 6099484 A 20000808 - DOUGLAS JOEL S [US], et al
- GB 2331936 A 19990609 - HEWLETT PACKARD CO [US]
- US 5312366 A 19940517 - VAILANCOURT VINCENT L [US]
- US 4398544 A 19830816 - NUGENT EDWARD L [US], et al
- WAGGONER W.C. AND G.V. SCOTT: "Instrumental Method for the determination of hair raspiness", J. SOC. COSMETIC CHEMISTS, 1966, NEW YORK, pages 171 - 179, XP002991473

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)

**WO 0224071 A2 20020328**; **WO 0224071 A3 20020627**; AU 2001295066 B2 20040122; AU 9506601 A 20020402; CA 2422300 A1 20020328; CA 2422300 C 20070327; CN 1196442 C 20050413; CN 1461202 A 20031210; EP 1320324 A2 20030625; GB 0023472 D0 20001108; HK 1062629 A1 20041119; JP 2004527730 A 20040909; JP 3905476 B2 20070418; MX PA03002536 A 20030630

DOCDB simple family (application)

**US 0142265 W 20010924**; AU 9506601 A 20010924; CA 2422300 A 20010924; CN 01815602 A 20010924; EP 01975777 A 20010924; GB 0023472 A 20000925; HK 04104152 A 20040609; JP 2002528112 A 20010924; MX PA03002536 A 20010924