

Title (en)
ELECTRIC SHAVER

Title (de)
ELEKTRISCHER RASIERER

Title (fr)
RASOIR ÉLECTRIQUE

Publication
EP 4296022 A4 20240807 (EN)

Application
EP 22755862 A 20220126

Priority
• JP 2021022219 A 20210216
• JP 2022002792 W 20220126

Abstract (en)
[origin: EP4296022A1] The present disclosure provides an electric razor that accurately detects a property of a hair in the case of a white hair. Electric razor (100) according to the present disclosure is electric razor (100) that includes grip (110) and head part (120) connected to one end of grip (110). The electric razor includes imaging device (131) that images a part near a skin with which shaving unit (121) comes into contact, illumination device (160) that can irradiate a region to be imaged by imaging device (131) with light rays in different directions, and an image processing device that processes an image acquired from imaging device (131). The image processing device includes an imaging control unit that controls illumination device (160) and imaging device (131) to cause the region to be imaged by being individually irradiated with the light rays in the different directions, and a property information generation unit that generates property information indicating a property of a hair based on an image imaged by imaging device (131).

IPC 8 full level
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CPC (source: EP)
B26B 19/388 (2013.01); **B26B 19/46** (2013.01); **B26B 19/48** (2013.01)

Citation (search report)
• [X] US 2007252997 A1 20071101 - VAN HAL ROBERT A M [NL], et al
• [A] US 2019306259 A1 20191003 - BURGHARDT RENATA [DE], et al
• [A] US 2014137883 A1 20140522 - ROTHSCCHILD LEIGH M [US]
• [A] US 2018194023 A1 20180712 - MAGRONE GAETANO FABIO [NL], et al
• [A] US 2019299436 A1 20191003 - FUELLGRABE MARTIN [DE], et al
• [A] US 2008196258 A1 20080821 - KRAUS BERNHARD [DE]
• See also references of WO 2022176538A1

Designated contracting state (EPC)
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