Synopsis of Original Research Paper

Virtual psycho-rheometry and its application (Sensory study on application of cosmetic base oil using virtual reality and flow analysis)

Hiroshi Mizunuma

Tokyo Metropolitan University

When a cosmetic base oil was applied, oscillatory friction of 50 Hz appeared. This oscillation was produced by not only a moving plunger at the friction test but also finger application. It was confirmed that this oscillation gave preferable feeing to the application. The mechanism of this oscillation was discussed based on a theoretical stick-slip model, and a reasonable agreement was obtained between the experiments and the numerical results. These results suggested that an introduction of stick-slip condition into a cosmetic base oil might improve its sensory characteristic in the application.