

(54) Title of the invention : AN AI BASED METHOD TO DETECT DIFFERENT SKIN PHENOTYPES AND MOISTURE LEVELS

<p>(51) International classification :A61Q0019000000, G06K0009620000, A61K0008978900, A61B0005145000, G01N0033500000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Brainware University</b> Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr. Suman Majumder</b> Address of Applicant :Director of Project, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>2)Dr. Debdutta Pal</b> Address of Applicant :Associate Professor, Computer Science and Engineering, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>3)Mr. Shiplu Das</b> Address of Applicant :Assistant Professor, Brainware University, Computer Science and Engineering, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>4)Mr. Koushik Mukhopadhyay</b> Address of Applicant :Assistant Professor, Computer Science and Engineering, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>5)Mr. Debojyoti Bhuinya</b> Address of Applicant :Student, B.Tech (CSE)-AIML, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>6)Mr. Subhamay Ganguly</b> Address of Applicant :Student, B.Tech (CSE)-AIML, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p> <p><b>7)Mr. Akash Das</b> Address of Applicant :Student, B.Tech (CSE)-AIML, Brainware University, 398, Ramkrishnapur Rd, near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 ----- -----</p>
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(57) Abstract :

[024] The present invention provides a smartphone application method that identifies skin types and moisture levels, then delivers individualised advise on a skin regimen. Oil on the face reflects incoming light, which inspired this idea. First, a well-lit photo is taken. Oily skin reflects more light than dry. The image is processed to calculate the number of white grayscale pixels (In Oily skin the pixel value is much higher than in Dry skin). In the training process the model is already trained with some oily and dry images. As a result, the model got the idea of the threshold value of the pixels, based on which it easily distinguish the different skin types. A special add-on in this invention determine the moisture values of those trained images which had been already correlated with the pixel values. This invention's special add-on determines the moisture values of training images connected with pixel values.

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