

TITLE:

FABRIC INFORMATION DIGITIZATION SYSTEM AND METHOD THEREOF

ABSTRACT

5 A fabric information digitization system and a fabric information digitization method are provided. The fabric information digitization system includes an image capturing apparatus and a computing apparatus. The image capturing apparatus obtains a fabric image. The computing apparatus includes an image processing module. The computing apparatus executes the image processing module to analyze the fabric image to obtain fabric classification information. The
10 computing apparatus inputs the fabric image to one of a plurality of neural network modules corresponding to different fabric classifications in the image processing module according to the fabric classification information to generate a normal map and a roughness map. The computing apparatus integrates the fabric classification information, the normal map, and the roughness map to generate a fabric file.

15 FIG. 1