

(54) Title of the invention : METHOD FOR GENERATING AND VISUALIZING MILLER INDICES IN VIRTUAL ENVIRONMENT AND A SYSTEM THEREOF.

(51) International classification	:F02D0013020000, F16C0033120000, C08J0003215000, C09J0167060000, C09K0008140000	(71) <b>Name of Applicant :</b> <b>1)INDIAN INSTITUTE OF TECHNOLOGY</b> <b>BHUBANESWAR</b> Address of Applicant :IIT Bhubaneswar, Samantapuri, Bhubaneswar, Orissa, India-751013 Orissa India
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(57) Abstract :. The present invention discloses a method for visualizing Miller indices in virtual environment and a system thereof. The method and the system of the present invention includes a mobile phone based computing application which operates in combination with the mobile phone accelerometer, gyroscope and cooperative VR kit to visualize Miller indices in the virtual environment involving a closed environment envisioned as a class room, with buttons to create set of numbers which make up a Miller index and iteratively involving inputs in said computing application consisted of integers to make up a 3 digit number that is the Miller index and thereby creating the corresponding direction or plane in the closed environment for a valid Miller index.

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