

(54) Title of the invention : DEEP LEARNING BASED SYSTEM AND METHOD FOR DETECTION OF FACEMASK

<p>(51) International classification :A41D0013110000, G06K0009000000, G06N0003080000, A61M0016060000, G06N0003040000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Y JUSTIN DHAS</b></p> <p>Address of Applicant :S/o. S YESU DHASAN, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EASWARI ENGINEERING COLLEGE, BHARATHI SALAI, RAMAPURAM, CHENNAI 600089, TAMIL NADU, INDIA. Tamil Nadu India</p> <p><b>2)A SONYA</b></p> <p><b>3)Dr. S AHAMED ALI</b></p> <p><b>4)Dr. P SANTHOSH KUMAR</b></p> <p><b>5)M ADITHI MOOKAMBAL</b></p> <p><b>6)Dr. C SUNITHA RAM</b></p> <p><b>7)S GOKULAKRISHNAN</b></p> <p><b>8)R PREMA</b></p> <p><b>9)M GAYATHRI</b></p> <p><b>10)D ANANDAN</b></p> <p>(72)Name of Inventor :</p> <p><b>1)Y JUSTIN DHAS</b></p> <p><b>2)A SONYA</b></p> <p><b>3)Dr. S AHAMED ALI</b></p> <p><b>4)Dr. P SANTHOSH KUMAR</b></p> <p><b>5)M ADITHI MOOKAMBAL</b></p> <p><b>6)Dr. C SUNITHA RAM</b></p> <p><b>7)S GOKULAKRISHNAN</b></p> <p><b>8)R PREMA</b></p> <p><b>9)M GAYATHRI</b></p> <p><b>10)D ANANDAN</b></p>
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## (57) Abstract :

The COVID-19 pandemic forced governments across the world to impose lockdowns to prevent virus transmissions. Reports indicate that wearing face masks while at work clearly reduces the risk of transmission. An efficient and economic approach of using AI to create a safe environment in a manufacturing setup. A hybrid model using deep and classical machine learning for face mask detection is disclosed in the present invention. A face mask detection dataset consists of with mask and without mask images. The invention is to identify whether the person on image/video stream is wearing a face mask or not with the help of computer vision and deep learning.

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