AASHRAY RAJ MATHUR
AASHRAYRAJM@GMAIL.COM

DESIGN AND DEVELOPMENT OF COVID-19 DIAGNOSTIC SYSTEM

ABSTRACT

Covid-19 Diagnostic System is a system that can detect likelihood of the respiratory diseases (if any) like Covid-19 (i.e. pneumonia like symptoms) etc, measure oxygen saturation and temperature of the patient. A Covid-19 Diagnostic System includes a testing stand which comprises of **respiratory sound recording unit** to listen and record the respiratory sounds of the patient, a pulse oximeter unit to measure the **oxygen saturation** level of the patient, an IR **temperature** sensor to measure the temperature of the patient, OLED displays to display the real-time results of oxygen saturation and temperature of the patient, buzzer to beep in case of abnormal readings and a computer which comprises of a **machine learning software** i.e. **Covid-19 Diagnostic Management System** to combine and analyse all readings from the three parameters to produce the final test result.

A patent has also been filed for this invention bearing the **application number 202041030100,** published in **Patent Journal No. 32/2020.**

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