

(12) INNOVATION PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2021105088 A4**

(54) Title
**PERFORMANCE AND EMISSION ANALYSIS OF DIRECT INJECTION DIESEL ENGINE
FUELLED BY BIODIESEL WITH Al₂O₃ NANO ADDITIVES**

(51) International Patent Classification(s)
C10L 1/10 (2006.01) **C10L 1/12** (2006.01)
C10L 1/02 (2006.01)

(21) Application No: **2021105088** (22) Date of Filing: **2021.08.07**

(45) Publication Date: **2022.05.05**

(45) Publication Journal Date: **2022.05.05**

(45) Granted Journal Date: **2022.05.05**

(71) Applicant(s)
**R. RAJASEKAR;P. Naveen Chandran;Sabarish Rajagopalan;E. Selvan;K.
Annamalai;S. Ganesan;M. Parthasarathy;Joshua Stephen Chellakumar Isaac Joshua
Ramesh Lalvani;P. V. Elumalai;D. Mohankumar;C. Saravanan;P. Lakshmi Kanthan**

(72) Inventor(s)
**RAJASEKAR, R.;Naveen Chandran , P.;Rajagopalan, Sabarish;Selvan, E.;Annamalai,
K.;Ganesan, S.;Parthasarathy , M.;Isaac Joshua Ramesh Lalvani, Joshua Stephen
Chellakumar;Elumalai, P. V.;Mohankumar, D.;Saravanan, C.;Lakshmi Kanthan, P.**

(74) Agent / Attorney
Sohan S, U 15 27 Good St, Westmead, NSW, 2145, AU