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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : GRAPHICAL EVALUATION OF CI ENGINE PERFORMANCE USING SESAME OIL BIO DIESEL BY VARYING INJECTION TIMING

<p>(51) International classification :F02B0003060000, C10L0001020000, C10G0003000000, C10L0001080000, C10L0001120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mrs. Bhavana Singh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p>2)Dr. Vaibhav Trivedi 3)Mr. Ayush Saxena Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Shashank Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p>2)Mr. Vivek Shankhdhar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p>3)Mr. Mayank Bharadvaj Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p> <p>4)Mr. Arvind Chaudhary Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 -----</p>
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(57) Abstract :

The present invention relates to evaluation of CI engine performance using sesame oil biodiesel. The Sesame oil biodiesel is blended with B50. The prepared biodiesel is evaluated for various parameters such as break thermal power, brake power, and brake specific fuel consumption. The performance of sesame oil bio diesel were done by using Graphical evaluation by comparing with the diesel. Results showed that the Sesame oil biodiesel is suitable as fuel for a diesel engine. Its B50 blend at 24° BTDC proved potentially suitable for diesel engine. Alone it can be used as diesel engine without any modifications.

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