

(12) PATENT APPLICATION PUBLICATION

(21) Application No.3412/CHE/2012 A

(19) INDIA

(22) Date of filing of Application :17/08/2012

(43) Publication Date : 31/08/2012

(54) Title of the invention : SINGLE STROKE ENGINE

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Filing Date	:NA	2)N. BAPTIC PACKIARAJ
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(57) Abstract :

This patent work is based on the diesel engine that works on single stroke, which produces power for every 180° revolution of crank. The combustion occurs on both sides of the piston. The engine cylinder and piston is sealed on both sides to avoid leakage. The sealing is made by expandable ring in the piston and compression ring in the bottom of the cylinder. The connecting rod moves in a reciprocating motion and does not oscillate. This linear motion of the piston is converted into rotary motion in crank shaft by a connecting rod with sliding mechanism. The engine produces relatively more power than any other reciprocating engine. The Power to Weight ratio for this engine is high.

No. of Pages : 9 No. of Claims : 4