

**PATENT NO. 327217**  
**AN IMPROVED STRAIGHT VEGETABLE OIL (SVO) FUELING SYSTEM OF CI ENGINE OPERATED TWO WHEELER**

**APPLICATION NO.** 2178/DEL/2009

**APPLICANT**

Malviya National Institute of Technology,  
Jaipur

**ABSTRACT**

This invention relates to An improved Straight Vegetable Oil (SVO) fuelling system for CI engine operated two wheeler utilizing waste heat of exhaust gases comprising of Straight Vegetable Oil (SVO) preheater and a by pass valve accommodated inside silencer wherein inlet of said preheater is connected to a duel tank system and its outlet is connected to Injection system of the C.I. engine.

**INVENTOR**

Dilip Sharma  
S.L. Soni  
Kamal Kishore Khatri  
Malviya National Institute of Technology,  
Jaipur, Rajasthan

**CLAIM 1**

An improved Straight Vegetable Oil (SVO) fuelling system for CI engine operated two wheeler utilizing waste heat of exhaust gases characterized in that Straight Vegetable Oil (SVO) preheater (2) and a by pass valve (3) accommodated inside silencer (1) wherein inlet of said preheater is connected to a duel tank system and outlet of the silencer is connected to Injection system of the C.I. engine (7), wherein said dual tank system comprising of two tanks, one tank for diesel (5) and another tank for SVO (4), and said preheater is a heat exchanger mounted in exhaust tail pipe of the vehicle in the form of a tube inserted thereinto.