

FORM 2
THE PATENTS ACT, 1970
(39 of 1970)
& The Patent Rules, 2003
COMPLETE SPECIFICATION

1. TITLE OF THE INVENTION:

A LINEAR ELECTRICAL MACHINE

2. APPLICANT:

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3. PREAMBLE TO THE DESCRIPTION:

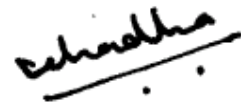
The following specification particularly describes the invention and the manner in which it is to be performed:

the piston, using external electromagnetic means, such that the peak flux density in the piston is greater than the maximum residual flux density present when the externally generated toroidal magnetic flux circuits are absent.

23. The method of claim 22 where the toroidal flux is controlled by a switching the electromagnetic flux generating means at a frequency of at least 100 Hz.

24. The method of claims 22 or 23 wherein a liquid is sprayed onto the piston so that heat generated in the piston by the varying magnetic flux and by combustion processes is recuperated as the liquid evaporates, providing a gas bearing for the piston and increasing the engine efficiency.

Dated this 03rd day of July, 2014.

A handwritten signature in black ink, appearing to read "Chetan Chadha", written over a horizontal line. There are two small dots below the line.

(CHETAN CHADHA)

PATENT AGENT