

SYSTEM AND METHOD FOR SUPPRESSING A BACK ELECTROMOTIVE FORCE

ABSTRACT

5 The present invention relates to a system and method for suppressing a back
electromotive force (EMF). The system and method are particularly relevant, but not
limited to suppress or reduce the back EMF generated by a rotational motor drive in a
vehicle. In accordance with an aspect of the present invention, there is a system for
suppressing the back EMF comprising: a motor drive operable to generate a rotational
force and the back EMF which counteracts the rotational force; and a thruster device
10 operable to compute variations in phase, time and/or frequency waveforms of the motor
drive and the thruster device, and shift the phase, time and/or frequency waveform of
the thruster device using the computed variations, wherein the thruster device is
operable to generate a voltage on the shifted phase, time and/or frequency waveform to
suppress the back EMF.

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Fig. 1