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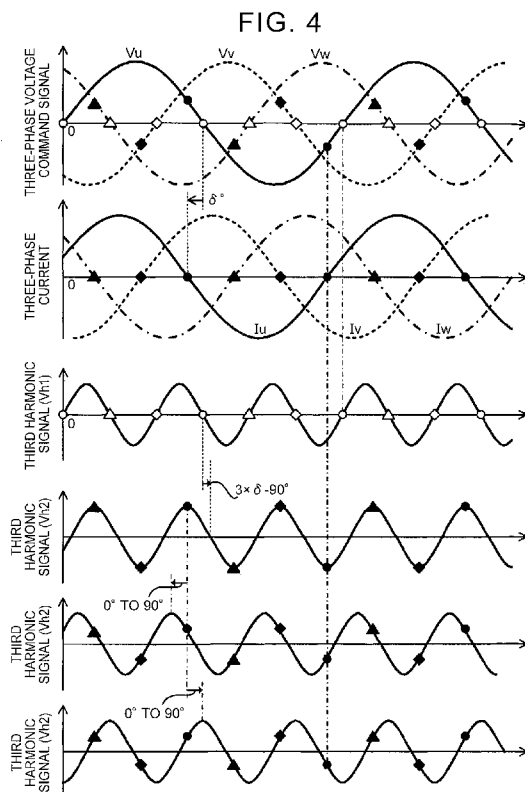
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[Continued on next page]

(54) Title: MOTOR CONTROLLER



(57) Abstract: Provided is a motor controller for controlling a motor system including a power converter, a smoothing capacitor and a three-phase AC motor. The motor controller includes a generation unit configured to generate a modulation signal by adding a third harmonic signal to a phase voltage command signal, and a control unit configured to control an operation of the power converter using the modulation signal. The third harmonic signal includes a first signal component that causes an absolute value of a signal level of the modulation signal to be greater than an absolute value of a signal level of the phase voltage command signal at a timing in which an absolute value of a signal level of a phase current becomes minimum in each phase.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2013/046460 A1 (MITSUBISHI ELECTRIC CORP [JP]; YOKOZUTSUMI RYO [JP]; MURAHASHI AKIHIRO) 4 April 2013 (2013-04-04) abstract section 0031 of EP2763312 lately published family member; figures 7, 8	1-7
E	----- EP 2 763 312 A1 (MITSUBISHI ELECTRIC CORP [JP]) 6 August 2014 (2014-08-06) abstract paragraph [0001] paragraph [0031] figures 7, 8	1-7
A	----- JP 2007 116862 A (NSK LTD) 10 May 2007 (2007-05-10) abstract ----- -/-	1-7



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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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