

ABSTRACT OF THE DISCLOSURE (FIG. 1)

"STATOR OF ROTATING ELECTRIC MACHINE AND
ROTATING ELECTRIC MACHINE USING THE SAME"

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A rotating electric machine comprises a stator
which comprises a stator core and a stator frame
connected to the core. The frame is configured such
that an electromagnetic force vibration of the frame
10 differs from a natural vibration mode of the frame.
For example, a circumference of a section of the frame
in a direction perpendicularly to an axial direction of
the frame is substantially defined by $A \cdot \sin n\theta$,

where A is a deformation from an average radius r
15 of the cross section, a ratio A/r being set to a range
of $0.05 \leq A/r \leq 0.5$,

θ is a mechanical angle, and

n is an odd number excluding 1.