

A B S T R A C T

**METHOD FOR IMPLEMENTING A RESONATOR
UNDER ELECTROSTATIC FORCES**

5 In an implementation in rate gyro mode, the method
comprises the steps of exciting the vibrating member by
means of a combination of control signals comprising an
amplitude control signal at the resonant frequency of the
vibrating member or at a frequency twice the resonant
10 frequency, a precession control signal at a frequency
twice the resonant frequency, and a quadrature control
signal at DC, at the resonant frequency, or at a
frequency twice the resonant frequency. In free gyro
mode, the method includes the steps of applying a
15 combination of signals to common electrodes 5 and of
applying said combination in alternation to main
electrodes 5.1 and 5.2 and to secondary electrodes 7.1
and 7.2 interleaved between the main electrodes.

Fig. 1