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(54) SUSPENDED VIBRATION EXCITER,  
HYPERBOLIC-WAVE VIBRATION  
GENERATOR AND METHOD FOR  
GENERATING VIBRATION EXCITATION

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(57) ABSTRACT

A suspended vibration exciter includes a vibration assembly and a holder. The vibration assembly includes an electro-magnetic coil, a permanent-magnetic moving iron, and an elastic connection piece. An electromagnetic field generated by the electromagnetic coil causes the permanent-magnetic moving iron to vibrate, and the holder transfers and superimposes the vibration generated by the vibration assembly, such that the volume of the entire vibration assembly is reduced and the vibration efficiency is improved. A hyperbolic-wave vibration generator includes an elastic vibration piece, a support portion, and at least one set of the suspended vibration exciter.

