

Abstract:

Provided is a space-saving coaxial inversion coreless generator of a simple structure wherein a high output can be obtained by utilizing the rotational force of a wind turbine, for example. The coaxial inversion coreless generator (1) comprises a generator shaft (13) supported fixedly, an outer rotor (12) with a magnet (24) supported rotatably by the generator shaft (13) and driven by wind force, a coreless coil body (14) that is housed in the outer rotor (12) coaxially therewith while being supported rotatably by the generator shaft (13) and is provided with a coil portion (41) arranged in association with the magnet (24), and a reversing gear (51) supported by the generator shaft (13) and rotating the coreless coil body (14) reversely according to rotation of the outer rotor (12) by interlocking with circular gears (26, 45) arranged both in the outer rotor (12) and the coreless coil body (14) circularly, whereby the generator is constituted to take out a power generation output according to an increase in relative speed between the magnet (24) and the coil portion (41) caused by reverse rotations of the outer rotor (12) and the coreless coil body (14).