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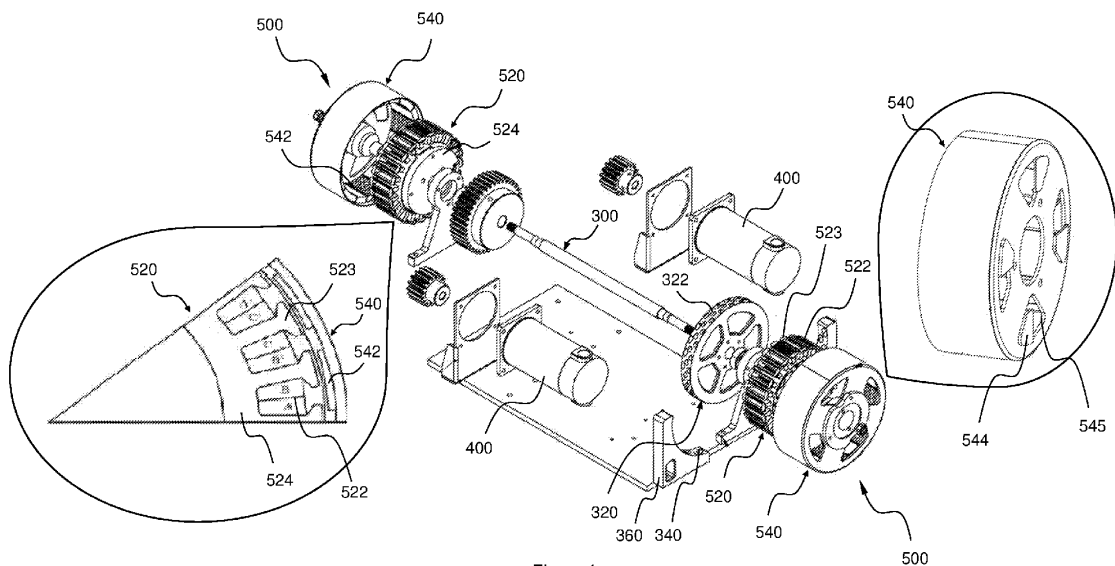


Figure 1

(57) Abstract: The present invention relates to a generator for clean, renewable, and sustainable power generation. Accordingly, the generator (500) includes: a) at least one machine device (400) with a drive shaft (300); b) at least one flywheel (320) connected to the drive shaft (300); c) at least one stator (520) and rotor (540); wherein the drive shaft (300) of the at least one machine device (400) is operable to synchronously rotate at least one rotor (540) of the generator (500); wherein the flywheel (320) has one or more layers of arrays, or evenly spaced around magnetic field means (322), adapted for magnetic interaction with energizing coils (340) of at least one support (360) so as to induce rotation of the flywheel (320) in a single direction to rotate the rotor (540); wherein the at least one stator (520) of the generator (500) has an armature (524) with a plurality of winding field coils (522) evenly spaced apart around its circumference projected winding teeth (523), and each winding field coil (522) is adapted to be served as a collecting energizing coil or an electromagnet coil; and wherein the at least one rotor (540) of the generator (500) includes an array of the magnetic field generating means (542) evenly spaced apart around at its inner circumference surface, said rotor (540) is adapted to serve as a flywheel such that allowing it to eliminate magnetic flux friction caused by the sudden load and therefore lighten the rotation of the rotor (540).

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