

Article

Instantaneous Self-Powered Sensing System Based on Planar-Structured Rotary Triboelectric Nanogenerator

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The assembly process of the self-powered RF transmission system in the door shell is shown in the following figure: make two door shells; make the stator by fixing the electrode layer on a substrate made of PMMA, and fixing a layer of PTFE on the electrode layer; fix the stator on one of the door shells; fix the transformer, the PMC, and the emitter module on the door shell; connect the pr-TENG, the transformer, the PMC, and the emitter module; fix the bought doorknob on another door shell; fix the rotor substrate on the doorknob; fix the rotor on the rotor substrate; fasten the two door shells together, and make the rotor and stator to be coaxial.

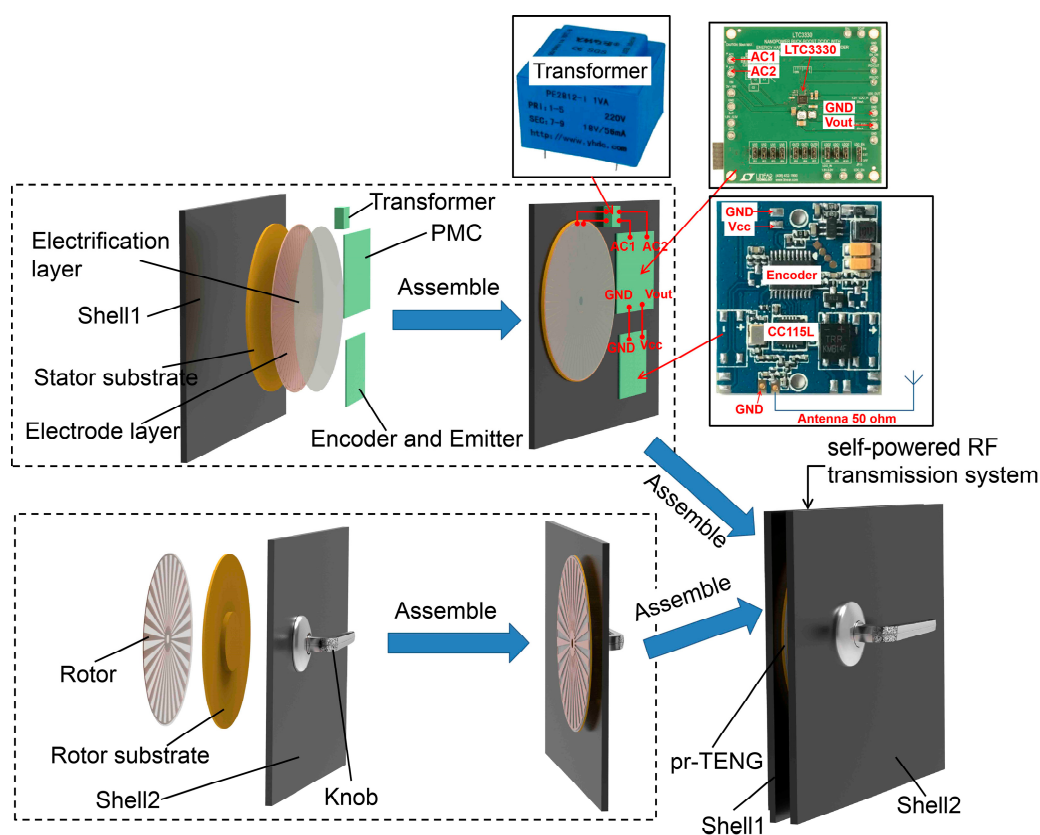


Figure S1. The assembly process of the self-powered RF transmission system.