

**Espacenet**

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### Pressure power generation module

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### Abstract of CN202435307 (U)

A pressure power generation module comprises a pressure plate and pressure power generation units connected with the pressure plate. Each pressure power generation unit comprises upper piezoelectric layers arranged in elastic plates, the ends of the elastic plates are embedded into a soft supporting part which is positioned outside the elastic plates, and the surface of each upper piezoelectric layer is provided with a metal coating. Each piezoelectric layer comprises more than two small piezoelectric columns, and resin layers are filled among the small piezoelectric columns. The pressure power generation units are vertically stacked, each two adjacent pressure power generation units are connected through an intermediate, and the upper end of each intermediate is connected with the elastic plate of the pressure power generation unit above the intermediate. The pressure power generation module has the advantages that the pressure power generation module is simple and reasonable in structure and flexible in operation, mechanical energy generated during walking of people is collected to be converted into electric energy which is directly supplied to lighting appliances, and thereby power consumed by public places or commercial buildings can be effectively saved.