



Flexible and Conformal Electronics Using Rigid Substrates

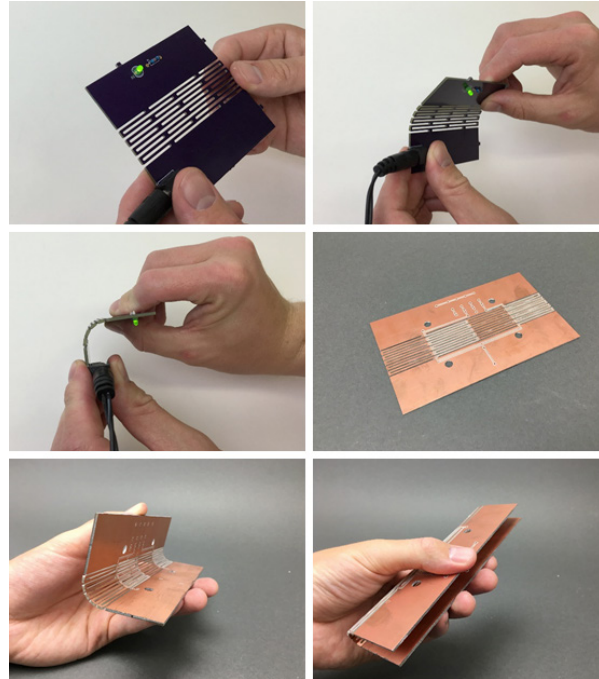
BYU #2016-035

DESCRIPTION

This invention enables the design and manufacture of flexible circuit boards that have alternating flexible and rigid parts. These designs allow the circuit board to move, bend, and wrap without compromising stability.

PROBLEM SOLVED

BYU's invention enables modifications to easily-produced rigid materials in order to achieve flexibility. Sensitive electronic components are protected by mounting them on rigid sections of a material while still providing flexibility.



KEY ADVANTAGES

- » *Reduces manufacturing costs for flexible electronics*
- » *Tolerates stress and vibration and protects electronic components*
- » *Controls motion in prescribed directions*

APPLICATIONS

Folding portable solar panels, flexible electronics and any device or mechanism where motion or flexibility of a rigid material is needed.

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