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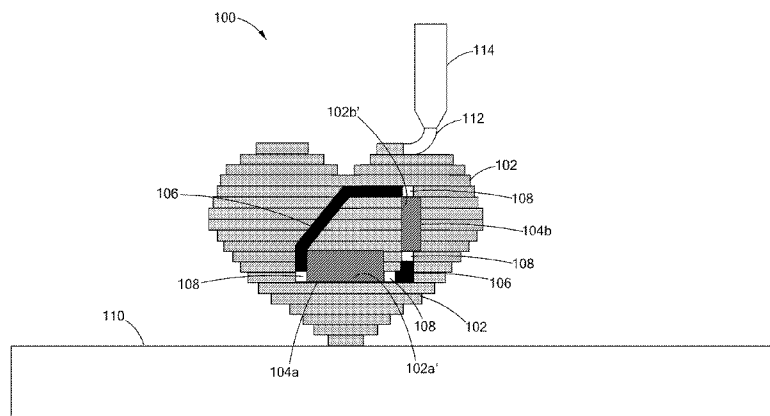


FIG. 1

(57) Abstract: A printed 3D functional part includes a 3D structure comprising a structural material, and at least one functional electronic device is at least partially embedded in the 3D structure. The functional electronic device has a base secured against an interior surface of the 3D structure. One or more conductive filaments are at least partially embedded in the 3D structure and electrically connected to the at least one functional electronic device.

