

**METHOD AND APPARATUS FOR MANUFACTURING A
MECHATRONIC SYSTEM BY THREE-DIMENSIONAL PRINTING**

ABSTRACT

Method for manufacturing a mechatronic system comprising:

- a step of manufacturing a mechanical structure (SM) by three-dimensional printing by fused filament deposition of at least one first electrically insulating material (M1); and

- a step of manufacturing at least one electrical component (CE) in contact with at least one element of said mechanical structure and secured therewith;

characterized in that said step of manufacturing at least one electrical component is implemented by three-dimensional printing by fused filament deposition of at least one second material (M2), conductive or resistive, directly in contact with said element of the mechanical structure.

Apparatus for implementing such a method.

Mechatronic system that can be manufactured by such a method.

Figure 1