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(54) **SPACE MANUFACTURING MODULE SYSTEM AND METHOD**

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(76) Inventor: **Peter J. Humphries**, San Jose, CA  
(US)

(57) **ABSTRACT**

Correspondence Address:  
**SCHNECK & SCHNECK**  
**P.O. BOX 2-E**  
**SAN JOSE, CA 95109-0005 (US)**

A space based manufacturing system including a control module and a manufacturing module. The manufacturing module contains the tools required for automated processing of materials into finalized components. The control module allows command and control of the manufacturing module as well as communication with earth based systems. For component manufacture, the component requiring manufacture is identified in space, designed and engineered on earth, and manufactured in space using computer integrated manufacturing to tie these processes together. The astronaut in the control module monitors the safety of the manufacturing operation and may control manufacturing in real time.

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