

Title (en)

RAPID PROTOTYPE THREE-DIMENSIONAL STEREOLITHOGRAPHY.

Title (de)

DREIDIMENSIONALE STEREOLITHOGRAPHY ZUM SCHNELLEN HERSTELLEN VON PROTOTYPEN.

Title (fr)

STEREOLITHOGRAPHIE EN TROIS DIMENSIONS ET A PROTOTYPE RAPIDE.

Publication

EP 0640034 A4 19950830 (EN)

Application

EP 93912254 A 19930415

Priority

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- US 9303544 W 19930415

Abstract (en)

[origin: WO9320993A1] Methods and apparatus are disclosed for the production of high precision large scale, micro and mini structures (24) using three-dimensional stereolithography. The objects (24) formed using these methods have minimal stress between layers and low curl distortion. The objects also have low warpage because no post-cure treatment is necessary. The methods include the use of elevated pressure, elevated temperature, or sequential polymerization of polymer precursor fluid (10), or a combination of these, in the three-dimensional stereolithographic process.

IPC 1-7

B29C 35/08

IPC 8 full level

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CPC (source: EP US)

B29C 64/129 (2017.07 - EP); **B29C 64/40** (2017.07 - EP US); **B33Y 30/00** (2014.12 - EP US); **B33Y 70/10** (2020.01 - EP US)

Citation (search report)

- [Y] JP H0355225 A 19910311 - MATSUSHITA ELECTRIC WORKS LTD & PATENT ABSTRACTS OF JAPAN vol. 15, no. 203 (M - 1116) 24 May 1991 (1991-05-24)
- [PY] WO 9302846 A1 19930218 - UNIV TEXAS [US]
- See references of WO 9320993A1

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