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January 21, 2016

“Codama” Review

There are 3 approaches introduced in the paper. Approach a: UV is exposed from the top. A movable plate is set in the liquid polymer. The plate with the solidified layer is immersed by a pulsed motor. Approach b: UV is exposed from the bottom. the movable plate is pulled up and others the same with a. In approach a,b , the exposed area is controlled by a mask pattern. By UV illumination, the unsaturated polyester is cross linked and solidified.

Approach c is different with a and b because the the liquid surface is exposed through scanning fiber transmitter, controlled by XY plotter. A shutter is controlled to be open when position of fiber is in the area to be exposed.

The fabrication time of model is determined not only by solidifying time and the number of layers. In approach a and b, the drawing time of masks should also be considered. The solidified thickness is not proportional not proportional to exposure time.