

Continuous 3D printing

Efficient production with high component variety

Invention

With growing globalization and digitalization leading to shorter product life cycles while also expanding the variety of products and product variants, 3D printing technology is seeing increasing use in production processes. It offers a greater level of geometric freedom and especially saves on extremely expensive tool molds. To make 3D printing in mass production profitable and efficient, the 3D printer's available build area must be fully utilized.

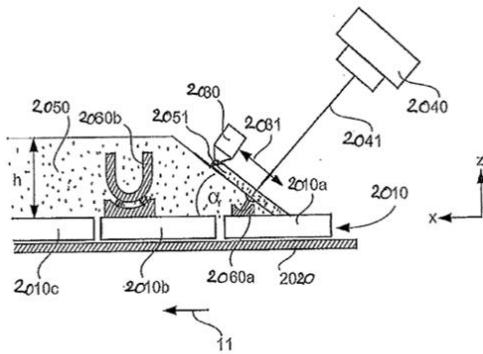


Figure 1

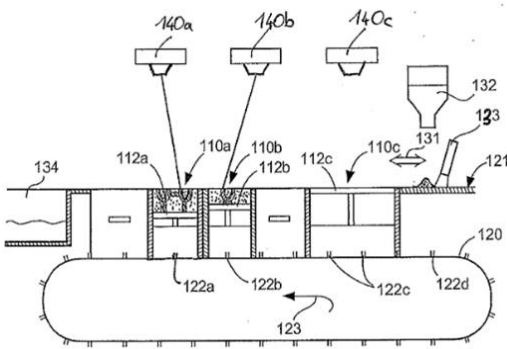


Figure 2

Current Status

Third parties have already implemented the first solution option using binder jetting and FDM printing processes. Products manufactured with this process are already on the market. The second solution option has undergone feasibility studies that substantiate the practicability of multi-jet printing. This option has only to be commercialized. Both of these options also offer the potential to utilize other suitable 3D printing technologies. These solution options are protected by an existing patent family* to which we are offering commercial licenses on behalf of BEGO Medical. *EP2681034B1, EP3456513B1, JP6625717B2, CN1036355305, US9456884B2, US10548695B2, US20200229905A1

An invention of BEGO Medical GmbH.

Competitive Advantages

- Continuous 3D printing
- Suitable for high variety of products and variants
- No batch processing
- Reduced delivery times
- No limit to structural length

Technology Readiness Level

1 2 3 4 5 6 7 8 9

Technology validated in relevant environment

Industries

- Production processes
- Mechanical engineering
- Medical technology

Ref. No.

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