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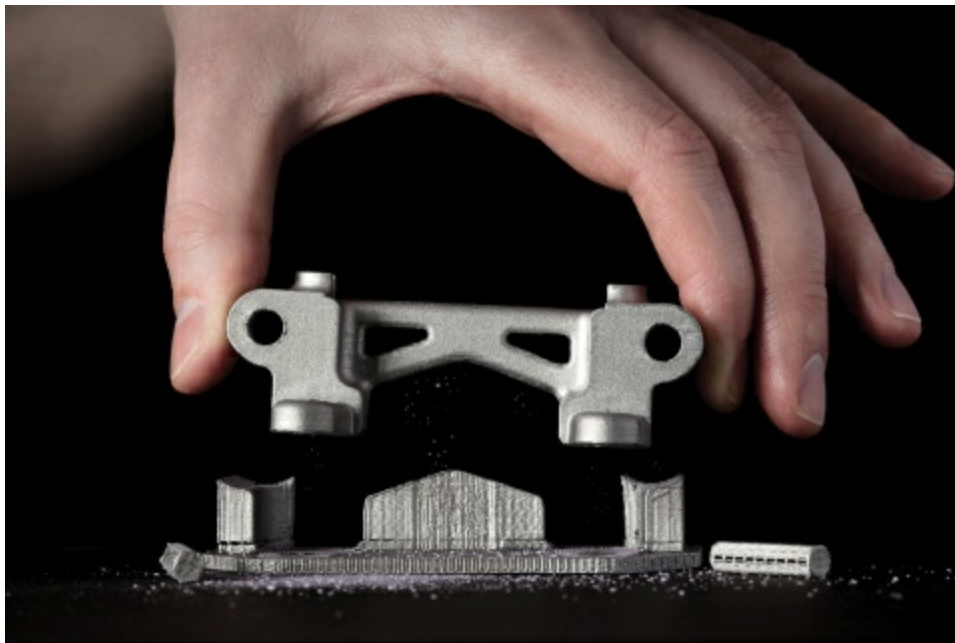


# Desktop Metal Awarded Seminal Separable Supports Patents for Its Metal 3D Printing Technology

**Separable Supports, an Industry First, Enable Printing of Large Parts through Metal Sintering and the Removal of Metal Support Structures by Hand**

BURLINGTON, Mass.--(BUSINESS WIRE)-- [Desktop Metal](http://www.desktopmetal.com), the company committed to bringing metal 3D printing to engineers and manufacturers, announced it has been granted seminal patents by the United States Patent and Trademark Office for its inventions in interface layer technology for both its Studio System™, the first office-friendly metal 3D printing system for rapid prototyping, and Production System™, the only 3D printing system for mass production of high resolution parts.

This press release features multimedia. View the full release here:  
<http://www.businesswire.com/news/home/20180103005904/en/>



Desktop Metal's patented Separable Supports make it easy to remove support structures by hand. (Photo: Business Wire)

Desktop Metal has exclusive rights to the patented technologies and adds these to its existing portfolio of over a hundred pending patent applications covering more than two hundred inventions.

“As a company driven by invention, we are committed to both innovating and protecting our technology through strategic intellectual property achievements,” said Jonah Myerberg,

Chief Technology Officer and Co-founder of Desktop Metal. “The technological innovation in these patents enables users, for the first time, to print large metal parts with complex geometries that can be easily removed from their support structures by hand or to print metal objects with separable interlocking structures.”

U.S. Patent No. 9,815,118 and U.S. Patent No. 9,833,839 cover the separable support layer

technology used in the Desktop Metal Studio System, which began shipping in December 2017, and in its Production System, which is scheduled to begin shipping in late 2018. Additionally, the company owns several more pending patent applications covering other aspects of this technology.

“Traditional laser powder bed methods for metal additive manufacturing (AM) are restricted to single materials and are both difficult and costly to implement,” said Myerberg. “Desktop Metal has designed new approaches for metal AM that now allow multiple materials to be used during printing. This makes it possible to print support structures that do not bond to parts and consolidate during sintering with the part and, as a result, high dimensional accuracy is achieved, and support structures are easily removed by hand. We believe the benefit of this technology covered by the patents will enable substantially increased adoption of metal AM.”

The **Studio System** is the first office-friendly metal 3D printing system for rapid prototyping and is 10 times less expensive than existing technology today. The Studio System is a complete platform, including a printer, a debinder, and a sintering furnace that, together, deliver metal 3D printed parts in an engineer’s office or on the shop floor. To manufacture metal 3D printed parts at scale, Desktop Metal also debuted the only 3D printing system for mass production of high resolution metal parts today, the **Production System**.

### **About Desktop Metal**

Desktop Metal, Inc., based in Burlington, Massachusetts, is accelerating the transformation of manufacturing with end-to-end metal 3D printing solutions. Founded in 2015 by leaders in advanced manufacturing, metallurgy, and robotics, the company is addressing the unmet challenges of speed, cost, and quality to make metal 3D printing an essential tool for engineers and manufacturers around the world. Desktop Metal has raised over \$200 million in financing, with the Series D marking the largest round ever for an additive manufacturing company. Among the company’s investors include GV (formerly Google Ventures), GE Ventures, BMW, Lowe’s, and Techtronic Industries (TTI). In 2017, Desktop Metal was selected as one of the world’s 30 most promising [Technology Pioneers](#) by World Economic Forum; named to MIT Technology Review’s list of [50 Smartest Companies](#); and recognized among the most important innovations in engineering in *Popular Science*’s [“2017 Best of What’s New.”](#) For more information, visit [www.desktopmetal.com](http://www.desktopmetal.com).

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