

## Patent Protection & Registration

[Patents](#) grant property rights on new and useful inventions, allowing the patent holder to prevent others from using, making, or selling that invention without permission for a limited time. U.S. patents are permitted by the U.S. Constitution and are designed to promote scientific progress and invention. By allowing inventors to profit from licensing or selling their patent rights, inventors can recoup their research and development costs and benefit financially from their inventing efforts. There are three main types of patents utility, plant, and design. Utility and plant patents can last up to 20 years, while design patents can last up to 15 years. When a patent expires, the patented material enters the public domain, making it free to use by anyone without a license. U.S. patents are issued by the [United States Patent and Trademark Office \(USPTO\)](#).

U.S. Patent No. D1,008,425 entitled “Male Quick-Connect Connector” issued December 19, 2023 to JOI Holding, LLC of Boaz, Kentucky. Invented by Jason Ingram, also of Boaz, Kentucky. Claims: What is claimed is the ornamental design for a male quick-connect connector, as shown and described.

U.S. Patent No. D1,008,426 entitled “Quick-Connect Coupler” issued December 19, 2023 to JOI Holding, LLC of Boaz, Kentucky. Invented by Jason Ingram, also of Boaz, Kentucky. Claims: What is claimed is the ornamental design for a quick-connect coupler, as shown and described.

U.S. Patent No. 11,844,875 entitled “Microstructured Haptotaxic Implant” issued December 19, 2023 to BVW Holding AG of Cham, China. Invented by Lukas Bluecher of Eurasberg, Germany and Michael Milbocker of Holliston, Massachusetts. Abstract: The invention relates to the field of tissue engineering and regenerative medicine, and particularly to a three-dimensional biomimetic tissue scaffold that exploits the use of three-dimensional print technology. Surface energy is controlled by precisely placing polymers with differing surface chemistry, and using surface texture and bulk composition to pattern absorbable and non-absorbable polymers for the purpose of promoting functional healing in a mammalian body.

U.S. Patent No. 11,846,076 entitled “Self-Propelled Milling Machine having a Machine Frame and a Conveyor Device for Removing Material” issued December 19, 2023 to Wirtgen GmbH of Windhagen, Germany. Invented by Winfried von Schönebeck of Kalenborn, Germany and Sascha Schwippert of Königswinter-Oelinghoven, Germany. Abstract: A self-propelled milling machine has a machine frame 4 supported by running gears 6A, 6B, a working device 5 provided on the machine frame 4 for working the ground, and a conveyor device 12 for removing material. The conveyor device 12 has a boom 13 which is mounted on the machine frame 4 so as to pivot about an axis of rotation X which is perpendicular to the machine frame. The pivoting apparatus 16 for the boom 13 is characterised by at least one mechanism 16A, 16B having a plurality of



mechanism links and the joints A, B, C, D connecting them and at least one linear drive 17A, 17B for driving at least one of the mechanism links. The mechanism may be designed as a planar four-link pivot joint mechanism 16A, 16B, the machine frame 4 forming a mechanism link of the pivot joint mechanism.