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[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. 11,524,303](#) entitled “Tool System” issued December 13, 2022 to Betek GmbH & Co. KG of Aichhalden, Germany. Invented by Florian Smeets of Dossenheim, Germany and Ulrich Kraemer of Wolfach, Germany. Abstract: The invention relates to a tool for securing on a tool holder of a machine tool for machining vegetable and/or mineral materials, comprising a tool body which is equipped with a machining attachment that points in a tool feeding direction and comprises a cutting region, in particular a cutting element, and on which a fitting element for meshing with a mating element provided on the tool holder is formed on a support surface facing the tool holder. The dependability and operational reliability when using a machine tool can be ensured if the fitting element has at least two molded regions with different contour regions over the vertical course of the fitting element with respect to the support surface.

[U.S. Patent No. 11,524,030](#) entitled “Copolymers of Hydrophobic and Hydrophilic Segments that Reduce Protein Adsorption” issued December 13, 2022 to BVW Holding AG of Cham, China. Invented by Lukas Bluecher of Eurasberg, Germany and Michael Milbocker of Holliston, Massachusetts. Abstract: The present disclosure relates to compositions A composition comprising a polymerization product of an anionic polysaccharide, a diisocyanate, and a linker, wherein the linker comprises i) an ether group, an ester group, or a combination thereof and, ii) a chain extender comprising a hydroxyl group, a thiol group, an amine group, or a combination thereof. The disclosure further relates to medical devices comprising the aforementioned compositions, and to methods of using the compositions and devices. More particularly, the compositions, devices and methods described herein are useful for preventing protein adhesions in vivo, particularly the Vroman effect.

[U.S. Patent No. 11,525,224](#) entitled “Monitoring Device for a Slipform Paver for Monitoring the Compaction and a Method for Monitoring the Compaction of Concrete during Operation of a Slipform Paver” issued December 13, 2022 to Wirtgen GmbH of Windhagen, Germany. Invented by Adrian Müller of Niedersteinebach, Germany and

Martin Dahm of Gieleroth, Germany. Abstract: A device is provided for monitoring the compaction of concrete introduced into a slipform of a slipform paver by means of at least one concrete compacting device that has an asynchronous motor for driving an unbalanced mass which generates vibrations. The monitoring device comprises an apparatus for monitoring the stator current of the asynchronous motor, the apparatus being configured such that a change in the compaction of the concrete is determined based on an analysis of the stator current. The apparatus for monitoring the stator current of the asynchronous motor is preferably configured such that the amplitude spectrum of the stator current is determined in order to analyse the stator current. It is advantageous that the compaction of the concrete is not monitored using sensors which are exposed to harsh ambient conditions during operation of the slipform paver.

[U.S. Patent No. D972,671](#) entitled “Outer Cover for Vibrating Fitness Roller” issued December 13, 2022 to Hyper Ice, Inc. of Irvine, California. Invented by Anthony Katz of Laguna Niguel, California; Bostjan Buc of Mislinja, Slovenia; Jure Miklavc of Skofja Loka, Slovenia and Andrej Senk of Preddvor, Slovenia. Claims: The ornamental design for an outer cover for vibrating fitness roller, as shown and described.

[U.S. Patent No. D972,739](#) entitled “Vibrating Fitness Roller” issued December 13, 2022 to Hyper Ice, Inc. of Irvine, California. Invented by Anthony Katz of Laguna Niguel, California; Bostjan Buc of Mislinja, Slovenia; Jure Miklavc of Skofja Loka, Slovenia and Andrej Senk of Preddvor, Slovenia. Claims: The ornamental design for a vibrating fitness roller, as shown and described.