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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. D973,220](#) entitled “Vibrating Fitness Roller” issued December 20, 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.

[U.S. Patent No. D973,159](#) entitled “Endcaps for a Vibrating Fitness Roller” issued December 20, 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 endcaps for a vibrating fitness roller, as shown and described.

[U.S. Patent No. D973,160](#) entitled “End Plates for Vibrating Fitness Roller” issued December 20, 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 end plates for a vibrating fitness roller, as shown and described.

[U.S. Patent No. D973,221](#) entitled “Vibrating Fitness Roller” issued December 20, 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.

[U.S. Patent No. 11,530,668](#) entitled “Closed Cycle Regenerative Heat Engines” issued December 20, 2022 to Stirling Works Global, Ltd of Middlesex, United Kingdom. Invented by Michael Dann and Graham Nicholson, also of Middlesex, United Kingdom. A closed cycle regenerative heat engine has a housing defining a chamber. A displacer is housed in the chamber. A power piston is housed in the chamber. The displacer is resiliently deformable from a rest condition in response to displace the working fluid in the



chamber. The displacer may be a multi-start volute spring. The displacer may be provided with a heat storage reservoir to store heat received from a working fluid as the working fluid is displaced from a heating location in the chamber to a cooling location in the chamber and reject heat to the working fluid when the working fluid is displaced from the cooling location to the heating location. The resiliently deformable displacer may comprise two components with an air space defined between the two components.