

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 14 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. 11,401,745](#) entitled “Furniture Hinge Having a Blocking Element for a Linear Damper” issued August 2, 2022 to Samet Kalip ve Maden Esya San. Ve Tic A.S. of Istanbul, Turkey. Invented by Ertac Capur of Beylikduzu/Istanbul, Turkey; Ufuk Kiziltan of Istanbul, Turkey and Himmet Tanriverdi of Esenyurt/Istanbul, Turkey. Abstract: The invention relates to a furniture hinge for the articulated fastening of a furniture door, flap or the like to a furniture carcass, with a hinge body with a hinge cup and a hinge arm which is pivotably connected to the hinge cup and which can be fastened to one of the furniture parts, and with a mounting body which can be fastened to the other furniture part, with a linear damper for damping at least the closing movement of the furniture hinge, and with a blocking element which can be set in at least two switching positions and by means of which the linear damper is blocked in a blocking switching position in its inserted position and is released in a damping switching position, wherein, in the blocking switching position, a blocking bolt which is rotatably mounted about an axis of rotation of the blocking element is pivoted into the actuating region of the linear damper or of a component connected to the linear damper and is pivoted out of the actuating region in the damping switching position. Here, there is provision that the axis of rotation of the blocking element is oriented in the direction of movement of the linear damper. The furniture hinge allows a secure setting of the damping action of the linear damper of the furniture hinge.

[U.S. Patent No. 11,401,424](#) entitled “Age-Resistant Asphalt Compositions and Methods” issued August 2, 2022 to Blacklidge Emulsions Inc. of Gulfport, Mississippi. Invented by Robert Grover Allen of Biloxi, Mississippi; Henry Cuevas of Long Beach, Mississippi; Roy Brittany Blacklidge of Gulfport, Mississippi. Abstract: Aging resistant asphalt compositions and related methods of preparing and applying the same are provided. The aging resistant asphalt compositions can include a base asphalt with specified properties combined with an aging resistance additive, to produce modified asphalt compositions having a colloidal index within the range of about 3.7 to about 8.0, a saturates content of less than about 10% by weight, and measurable age-resistant properties. The aging resistant asphalt compositions are useable in a variety of asphalt

paving and non-paving applications. The aging resistant asphalt compositions provide improved resistance to both moderate and low failure temperatures of conventional paving asphalts throughout its service life by reducing age-related failures.

[U.S. Patent No. 11,401,018](#) entitled “Swimming and Diving Aid Having a Camera” issued August 2, 2022 to Cayago Tec GmbH of Bad Salzflun, Germany. Invented by Hans-Peter Walpurgis of Kitzbuhel, Austria. Abstract: The invention relates to a swimming and diving aid, having a hull which comprises a flow channel or with which a flow channel is associated, a motor-driven water acceleration arrangement, in particular a propeller, being associated with the flow channel; having a support surface for an upper body on an upper side of the hull; having grips mounted on the swimming and diving aid, control elements for controlling the water acceleration arrangement by means of an associated motor controller being provided on the grips; and having a display, facing toward the support surface, for showing operating parameters of the swimming and diving aid. Provision can be made in this context that a forward-directed front camera is integrated into the hull in front of the support surface in a direction of travel, and is connected to an electronic control system; that the electronic control system is embodied to apply control to the front camera and to receive camera signals; and that a switching element for starting and ending a video capture is arranged on at least one grip. The invention makes possible the acquisition of video captures in the travel direction of the swimming and diving aid.

[U.S. Patent No. 11,401,808](#) entitled “Earth Working Machine and Method for Wear-Optimized Operation of an Earth Working Machine” issued August 2, 2022 to Writgen GmbH of Windhagen, Germany. Invented by Cyrus Barimani of Konigswinter, Germany; Gunter Hahn of Konigswinter, Germany and Stefan Wagner of Bad Honnef, Germany. Abstract: The invention relates to an earth working machine and to a method for wear-optimized operation of such an earth working machine. Provision is made in this context that machine parameters with which the earth working machine is operated are adapted, in consideration of material properties of the substrate to be worked, in such a way that favorable wear behavior exists for the earth working tools being used.

[U.S. Patent No. 11,400,751](#) entitled “Mountable Wheel Cap” issued August 2, 2022 to HSMA, LLC of Brentwood, Tennessee. Invented by Darron Ming; Asa Hazelwood; Eric Richard Larson; Kevin Paul Shatzer and James Dow Smith all of Brentwood, Tennessee. Abstract: Apparatuses, systems, and methods are provided for improving fuel efficiency of a vehicle using a mountable wheel cap coupleable to a wheel. The mountable wheel cap includes a center section and an outer section. The outer section includes a plurality of tabs extending outwardly from the center section, and at least one gripper section coupled to at least one of the plurality of tabs, the at least one gripper section including a gripper configured to be placed in contact with the at least one of the outer section and/or the outer lip to secure the mountable wheel cap to the wheel.



[U.S. Patent No. 11,401,665](#) entitled “Interchangeable Unit for Texturing Ground Surface Work and Road Construction Machine Having such an Interchangeable Unit” issued August 2, 2022 to Writgen GmbH of Windhagen, Germany. Invented by Sebastian Winkels of Windeck, Germany and Dieter Bungarten of Neustadt, Germany. Abstract: An interchangeable unit for material-removing work on a subsoil starting from ground surface includes a housing, a removal tool, a drive belt pulley and a transmission gear unit which transmits motion from the drive belt pulley to the removal tool.