

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. 11,109,676](#) entitled “Movement Device for Drawers” issued September 7, 2021 to Karl Simon GmbH & Co. KG of Aichhalden, Germany. Invented by Ulrich Bantle of Empfingen, Germany and Jurgen Eschle of Alpirsnach-Reutin, Germany. Abstract: The invention relates to a movement device for drawers, including an extending mechanism. A blocking element can be moved from a retracted position into an open position or a partially open position by the extending mechanism, and the extending mechanism is held in the retracted position by an overstroke mechanism. The overstroke mechanism has a switching element which is held on a stop by a blocking element in the retracted position and can be lifted from the stop when an overstroke is applied onto the switching element. An improved switching behavior can be achieved in that the blocking element is offset transversely to the overstroke direction when the overstroke is applied.

[U.S. Patent No. 11,111,711](#) entitled “Simply Fitted Furniture Hinge” issued September 7, 2021 to Samet Kalip Ve Maden Esya san. Ve tic A.S. of Istanbul, Turkey. Invented by Ertac Capur, Ufuk Kiziltan and Himmet Tanriverdi of Istanbul, Turkey. Abstract: The invention relates to a furniture hinge having a mounting body and a hinge body with a hinge arm for fastening, in a hinged manner, a furniture door or the like to a furniture carcass. According to the invention, at least one section of the hinge arm or of a component connected to the hinge arm has at least one guide section which interacts with a sliding guide on the mounting body in such a manner that the hinge arm or the component connected to the hinge arm is mounted displaceably in the sliding guide along an installation direction and is retained transversely to the installation direction and that a movement of the hinge arm against the installation direction can be blocked when an installation position is reached. The invention further relates to an associated method for mounting a furniture door in a hinged manner. The furniture hinge and the method permit the installation of a furniture door, flap or the like to a furniture carcass in a fast and reliable fashion.

[U.S. Patent No. 11,113,668](#) entitled “Method and device for determining an area cut

with a cutting roll by at least one construction machine or mining machine” issued September 7, 2021 to Wirtgen GmbH of Windhagen, Germany. Invented by Sven Paulsen of Brohl-Lutzing, Germany, Stefan Wagner of Bad Honnef, Germany and Cyrus Barimani of Konigswinter, Germany. Abstract: In a method for determining an area milled by at least one construction machine or at least one mining machine with a milling drum (2) working a predetermined area in several milling trajectories by at least one machine (1), determining the length of the milling trajectories along which a milling operation has taken place by evaluating the continuous machine positions, adding up the previously milled partial areas taking into account the length of the milling trajectory and the installed width of the milling drum (2), wherein the partial area currently milled along the milling trajectory is checked, either continuously or subsequently, for overlapping or multiple overlapping with any previously milled partial areas, and any partial areas which overlap are deducted, as overlapping areas, from the added-up previously milled partial areas, the total added-up partial areas milled minus the total overlapping areas established give the milled area.

[U.S. Patent No. 11,111,693](#) entitled “Systems, Apparatuses, and Methods for Knockdown Livestock Fencing” issued September 7, 2021 to Rankam Manufacturing Co. Ltd of Hong Kong, China. Invented by Mike Man Shun Luk and Andy Ning Fan Kam of Hong Kong, China. Abstract: A knockdown fence assembly and methods thereof are provided. The knockdown fence assembly comprises a first connector piece, a first plurality of horizontal connectors, a second plurality of horizontal connectors, and a plurality of connector fasteners. The first connector piece includes a vertical main connector body with first and second pluralities of horizontal connector support pieces extending from the vertical main body in opposite directions. The first plurality of horizontal connectors are coupled to the first plurality of horizontal connector support pieces and extend into the vertical main connector body. The second plurality of horizontal connectors also extend into the vertical main connector body and overlap with the first plurality of horizontal connectors to define overlapping end portions. Each connector fastener extends through the vertical main connector body and a pair of the overlapping end portions of the first and second pluralities of horizontal connectors.

[U.S. Patent No. 11,111,640](#) entitled “Self-propelled Construction Machine” issued September 7, 2021 to Wirtgen GmbH of Windhagen, Germany. Invented by Burkhard Frank of Vettelscho, Germany and Markus Schafer of Hussen, Germany. Abstract: The self-propelled construction machine according to the invention, in particular a road milling machine, stabilizer, recycler or surface miner, has a machine frame 1, a work roller arranged on the machine frame, and a left-hand edge protector 5A arranged on the left-hand side of the work roller in the working direction and a right-hand edge protector 5B arranged on the right-hand side of the work roller in the working direction. In order to raise and/or lower the left-hand and/or right-hand edge protector 5A, 5B, a hydraulic system is provided which comprises a hydraulic source 20 for providing



hydraulic fluid. The hydraulic system is characterized in that only a single main directional control valve 13 which has three switch positions and is associated with a first and a second hydraulic cylinder 6A, 6B is provided, which main directional control valve interacts with a first auxiliary directional control valve 14 which has two switch positions and is associated with the first hydraulic cylinder 6A, and with a second auxiliary directional control valve 15 which has two switch positions and is associated with the second hydraulic cylinder 6B, in order to be able to raise and/or lower or floatingly mount the edge protectors.