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U.S. Patent No. 12,060,261 entitled “Extremal Microstructured Surfaces” issued August 13, 2024 to BVW Holding AG of Cham, China. Invented by Lukas Bluecher of Eurasberg, Germany and Michael Milbocker of Holliston, Massachusetts. Abstract: The present application relates to multifunctional hierarchically microstructured surfaces and three-dimensional anchored interfacial domain structures. The multifunctional properties are extremal. In one aspect the microstructured surfaces may be super-adhesive. Examples of super-adhesive mechanisms may include gas trapping, fluid trapping, and solid wrinkle trapping. In another aspect the micro structured surfaces may be nearly adhesive-less. Examples of adhesive-less mechanisms may include inter-solid surface lubrication, energy conserving fluid flows, and super-low drag phase-phase lateral displacement. The extremal structures may be obtained by anchoring mechanisms. Examples of anchoring mechanisms may include Wenzel-Cassie formation, contact angle confusion, and capillary effects.

U.S. Patent No. 12,059,783 entitled “Hand Operated Gripping Tools” issued August 13, 2024 to Nigel Buchanan of Fife, United Kingdom. Also invented by Nigel Buchanan. Abstract: A hand operated gripping tool has a first handle (301), a first jaw (201) connected with the first handle, a second handle (302) pivotably connected with the first handle to permit relative pivoting movement of the second handle with respect to the first handle and a second jaw (202) connected with the second handle. One of the first jaw and second jaw is a removable jaw and the removable jaw is push-fit attachable to the respective handle.