Abstract (en)

[origin: WO2007106961A1] A tyre regrooving device and method for cutting partially worn out grooves to a new depth in the tread of a partially worn out pneumatic tyre, comprising a main body (30) having a gripping handle (31) at its near end and a cutting tool assembly at its distal end, said assembly comprising a cutting blade (37) substantially U-shaped, a blade holder (33) to which said blade is attached and a guiding element (58, 58') defining with said cutting blade the new cutting depth, said blade guiding element being integrated in the blade holder, which comprises an upper (75) and a lower (54) portion, the latter being shaped so as to fit at least partially into said worn out groove. The cutting blade is lengthwise positioned in substantial coincidence with the vertical plane that divides said blade holder in approximately symmetrical front and back portions. The bottom front edge (43) of said blade holder is provided with a bevel (40) which facilitates the sliding motion of the cutting tool assembly along the groove, and enables the cutting tool to climb over the tread wear indicators (42) at the bottom of the remaining tread, bringing about the cutting of a similar tread wear indicator at the bottom of the restored groove .