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Abstract



Invention designation: Universal folding bicycle

The universal folding bicycle according to the invention has the front arm (1) that is attached to the head assembly (2) on the frame (3) where the front swing arm (4) with the front wheel (22) are attached. The freely adjustable handlebars (9) are attached to the head assembly (2) via the rotary joint (5), the telescopic rod (6) and the handlebar axis (8) or via the handlebar attachment (7). The back wheel (13) is attached to the back swing arm (10) connected to the central assembly (11) formed by the pedals and cranks (12) and mounted on the frame (3). The back swing arm (10) can be equipped by the accessory arm (26). The seat (16) on a telescopic stem (15) is attached to the end of the frame (3) or via the pin (14) to the beginning of the frame (3). The seat (16) may be located in the seat swing arm (23) and may be equipped by the telescopic seat springing (24) or by the seat arm springing (25). The front arm (1) and the swing front arm (4) are interconnected by the telescopic front wheel springing (18) or by the front wheel springing (19). The back swing arm (10) is connected to the end of the frame (3) via the back wheel telescopic springing (20) or by the back wheel springing (21). The front wheel (22) and the back wheel (13) are attached by the means of unilateral free bearing to the front swing arm (4) and to the back swing arm (10). The telescopic front wheel springing (18), the front wheel springing (19), the rotary joint (5), the telescopic back wheel springing (20), the back wheel springing (21), the handlebar axis (8), and the cranks with pedals (12) are all equipped by quick releases (5.1), (8.2), (12.3), (18.4), (19.5), (20.6) and (21.7).

The bicycle is folded by releasing the quick releases (5.1), (8.2), (12.3), (18.4), (19.5), (20.6), (21.7), swinging the handlebars, the front wheel (22), the back wheel (13) and the seat (16) after sliding it out together with the telescopic stem (15) towards the frame (3).