

Title (en)

Method of manufacturing a self-propelled physical skateboard

Title (de)

Fabrikationsverfahren eines Rollbretts mit körperlichen Antrieb

Title (fr)

Procédé de fabrication d'une planche à roulettes autopropulsée physique

Publication

**EP 0558768 B1 19960124 (EN)**

Application

**EP 92103162 A 19920225**

Priority

- EP 92103162 A 19920225
- CA 2063916 A 19920325

Abstract (en)

[origin: EP0558768A1] A footboard of a skateboard is with respect to a respective reference plane which at riding straight (= x plane) is parallel to the riding path (= the ground), and at turning (= x" plane) is with respect to the direction of riding slanted to one or the other side, is rhythmically swung around a longitudinal axis (O) of swinging lying in suspensions (4, 5) of the skateboard. The amplitude (A) and the frequency of swinging are mutually coordinated in a manner that swinging does not result in such meandering of the skateboard, which was felt inconvenient. To a socket shaft housing (8) of a suspension (4, 5) of the skateboard, said housing encasing a roller shaft (11), there is to each end thereof attached a gearing (9, 10), the gearings designed mirror-symmetrically. The gearing (9, 10) is composed of an essentially three-part housing assembly, which comprises a mounting casing (13), an upright intermediate wall (16) and a mounting cover (17), as well as of a train-type gearing composed of a toothed rack (19) as a driving constituent and a gear (25) bound to the roller shaft (11), as a driven constituent. In addition to the roller shaft (11) which passes through, two further, inner shafts (14, 15) constitute said gearing, the lastmentioned shafts each supporting two gears (20, 21; 23, 24), the first one (20) thereof mating the toothed rack (19) and the last one (24) mating the gear (25) driven. The second one (21) of the gears is indirectly connected to the respective shaft (14) by means of an overrunning clutch (22), and shaft (14) is by means of a suitably pre-stressed helical torsion-spring (28), which encompasses the shaft (14), rotationally-elastically bound to the stationary mounting casing (13) of the gearing.

IPC 1-7

**A63C 17/12**

IPC 8 full level

**A63C 17/12** (2006.01); **B62M 1/08** (2006.01)

CPC (source: EP)

**A63C 17/12** (2013.01); **A63C 17/01** (2013.01)

Cited by

CN110510045A; NL1000278C2; WO2005910A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0558768 A1 19930908**; **EP 0558768 B1 19960124**; AT E133347 T1 19960215; AU 1319892 A 19931007; AU 653995 B2 19941020; CA 2063916 A1 19930926; CA 2063916 C 19960604; CZ 283741 B6 19980617; CZ 383892 A3 19940316; DE 69207890 D1 19960307; DE 69207890 T2 19960919; DK 0558768 T3 19960603; ES 2085506 T3 19960601; HU 215059 B 19980928; HU 9204024 D0 19930428; HU T67621 A 19950428; IL 104127 A 19960723; JP H0639077 A 19940215; SK 383892 A3 19950607

DOCDB simple family (application)

**EP 92103162 A 19920225**; AT 92103162 T 19920225; AU 1319892 A 19920325; CA 2063916 A 19920325; CS 383892 A 19921222; DE 69207890 T 19920225; DK 92103162 T 19920225; ES 92103162 T 19920225; HU 9204024 A 19921218; IL 10412792 A 19921217; JP 34725292 A 19921225; SK 383892 A 19921222