Title (en)

**AUTOMATIC TENNIS COURT MAINTENANCE SYSTEM** 

Title (de

**AUTOMATISCHES TENNISPLATZWARTUNGSSYSTEM** 

Title (fr)

SYSTÈME DE MAINTENANCE AUTOMATIQUE DES COURTS DE TENNIS

Publication

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Application

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Priority

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Abstract (en)

[origin: EP3593871A1] The invention relates to an automatic maintenance system for a tennis court which comprises: (a) one or two robots (2, 2a, 2b, 2c) with one or more maintenance elements of the tennis court (34, 46; 36, 38; 40, 42; 62; 64, 68; 70, 72) which has a width which corresponds at least to the extension of the end line, preferably at the distance of the double posts which support the court net and which is equipped with motion means (4, 6, 8, 10) to move said robot (2, 2a, 2b, 2c) and with a control unit (12) for controlling said maintenance elements of the tennis court and said motion means; (b) a supplying station for each robot locatable/located behind the end line of the tennis court; and (c) a communication device (28) for communication with said control unit (12) to allow remote management of said court maintenance elements (36, 38; 40, 42; 62; 64, 68; 70, 72) and the motion means. The supplying station comprises: (a) fixing means, preferably magnetic hooks, to be able to reversibly attach said tarpaulin (34) which in this regard is equipped with respective second fixing means (16) which can be coupled to said first fixing means; and/or (β) in case a wetting unit (64, 68) is present, a hydraulic attachment for filling the water tank; and/or (γ) devices for charging the battery(s) within the robot. Said tennis court maintenance element(s) is/are selected between a court covering unit containing a rolled up tarpaulin (34) on a relative axis (46) which can be actuated with a rotation movement, a grass cutting unit (38), a line tracing unit (40, 42), a smoothing unit (62), a wetting unit (68, 64), a cleaning unit (70, 72) and combinations thereof. The invention also relates to a tennis court equipped with the aforementioned system and a relative process for the maintenance of a tennis court.

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