

Title (en)  
Brush head positioning system

Title (de)  
Bürstenkopfpositioniervorrichtung

Title (fr)  
Système de positionnement d'un support de brosse

Publication  
**EP 0910981 A1 19990428 (EN)**

Application  
**EP 98308714 A 19981022**

Priority  
US 6271097 P 19971022

Abstract (en)  
An apparatus for use on a surface (8;108;210) and responsive to an operator. A head assembly (4;104;204) is adapted to carry a brush (6;106;208) for engaging and treating the surface (8;108;210) of a floor. An actuator (12;112,142,144,146,212) raises and lowers the head assembly (4;104;204) relative to the surface (8;108;210) thereby controlling the relative engagement between the brush (6;106;208) and the surface (8;108;210) and thereby controlling the treatment of the surface (8;108;210) by the brush (6;106;208). A touchdown switch (120;178) detects a position of the head assembly (4;104;204) such as when the brush (6;106;208) contacts the floor (8;108;210). A driving circuit (10;110;218) energizes the actuator (12;112,142,144,146,212) to raise or lower the head assembly (4;104;204) and brush (6;106;208) in response to a head position control (18;118;216) set by the operator. Alternatively, the driving circuit (10;110;218) may raise or lower the brush (6;106;208) an additional preset amount after the touchdown switch (120;178) detects that the brush (6;106;208) has touched the floor (8;108;210), the additional preset amount being defined by input from the operator. Torque and/or pressure control in combination with stroke control are also described. <IMAGE>

IPC 1-7  
**A47L 11/40**

IPC 8 full level  
**A47L 11/40** (2006.01)

CPC (source: EP)  
**A47L 11/4011** (2013.01); **A47L 11/4058** (2013.01)

Citation (search report)  
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