

Title (en)
SPRING-BIASED PIVOTING SQUEEGEE

Title (de)
FEDERVORGESPANNTE SCHWENKRAKEL

Title (fr)
RACLETTES A VITRE PIVOTANTE SOLLICITEE PAR UN RESSORT

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Abstract (en)
[origin: WO2004103141A1] A spring-biased pivoting squeegee to a handle. The head (12) is movable between a rest position, in which the head is angularly displaced from the handle (16) and a biased position in which the head (12), handle (16), and wiping blade (14) are in linear relation. In the biased position, the wiping blade is maintained at an optimum angle for cleaning a glass surface even with the handle held generally perpendicular to the glass. A spring (60) is fully contained in the head and biases the head toward the rest position. A tension adjustment knob (80) in the head permits adjustment of the spring to a tension level according to the ergonomic requirements of a user. In a second embodiment of the invention an improved locking mechanism comprises a pivoting lock lever (260) held against the top wall (262) of a recess in the head (202) of the squeegee by a retainer (278). The lock lever (260) is movable between locked and released positions. In the locked position stop surfaces (276) on the lock lever abut with upward facing ledges (256) of side plates (250) on the forward portion of the main handle body (208) to lock the head (202) in the biased position. Two springs (306) have forward projections (308) which rest in downwardly biased engagement on a spring pull nut (304). The spring pull nut is adjustable by turning an adjustment knob (294) to modify the tension on the springs. Slip-resistant surfaces on the handle (208) and head (202) improve handling of the squeegee.

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