

A High-rise Building Cleaning Machine

ABSTRACT

This present invention is a high-rise building cleaning machine that contains an elevator cage, a pair of washing rotary arms, one or more
5 pairs of winding machines, driving motors, a control box, a water pump, an oil pressure pump, a horizontal brush set, and a vertical brush set, wherein the winding machines power the vertical movement of the elevator cage along the outer walls of a building, and the washing rotary arms, pivoted on two lateral sides in the elevator cage, can be turned
10 around by 180 degrees by a driving motor; two transverse rods in parallel, with their two ends fixed at each of the rotary arms and separated by 180 degrees about the pivot axis, are installed for the attachment of a horizontal brush set and a vertical brush set respectively. The elevator cage is carried by the winding machines that is controlled by the control
15 box to move vertically against the walls of a building, during which detergent water is ejected from the bottom end of the elevator cage onto the wall surface and the horizontal brush set and the vertical brush set, in company of the turning of the rotary arm, perform washing acts in the horizontal and the vertical directions; the state of washing is monitored by
20 a monitor at the top end of the elevator cage. Therefore a fully automatic mean for washing the outer walls of a building is formed.