

A method for automatic control of refreshing and moistening waterings of woody plants consists in measuring the relative velocity of a xylem exudate flow in the night and day time, determining the current value of a diagnostic indicator of the need for watering as the relationship of these values, comparing the current value of diagnostic index with its critical value and upon obtaining the current value higher than the critical one forming the command on watering initiation. The duration of the refreshing and moistening waterings is carried out, conducting thereof until the current value of the diagnostic index is again lower than the critical one while measuring the relative velocity of a xylem exudate flow up to light period of day.