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CM, GA, GN, ML, MR, SN, TD, TG).**Published***With international search report.*(54) Title: **AN APPARATUS TO AUTOMATICALLY POSITION AND OPERATE SURGICAL INSTRUMENTS**

(57) Abstract

An apparatus to automatically position and operate surgical instruments, particularly for refractive keratic surgery, particularly lamellar refractive surgery, comprising means (1) for correctly positioning in correspondence with the operating cot; means (2) for vertically raising all the apparatus; a horizontal guide (3); a first support member (4) slideably arranged on said horizontal guide (3), a horizontal linear actuator (5), which determines the slide in both directions of said support member (4) on the horizontal guide (3); a vertical guide (6), integral with said first support member (4), at right angles to the horizontal guide (3); a second support member (7), slideable in both directions on said vertical guide (6) by means of a first vertical linear actuator (8); a member for operating and supporting (10, 13) the surgical instrument (9), borne by the second support member (7); a horizontal plane (11) integral with said support member (7) and endowed with a second vertical linear actuator (12) which allows its raising and lowering in an autonomous manner, and an arm (15), integral with said means for the positioning (1) and the vertical raising (2) and bearing, at its free end, a member (16) for correctly positioning of the portion which it is operated upon.

