INTRAOCULAR LENS INSERTION APPARATUS

[Field]

[0001] The present invention relates to an intraocular lens insertion apparatus that inserts an intraocular lens into an eye.

[Background]

[0002] In treatment of a cataract, an intraocular lens that is to be inserted as a substitute lens to replace a human opaque lens for refraction correction has become available. In intraocular lens insertion surgery, an incision of several millimeters is formed on the edge of the cornea or sclera, for example, the lens is pulverized by phacoemulsification or the like and removed through the incision, and thereafter the intraocular lens is inserted through the incision by an intraocular lens insertion apparatus.

[0003] The intraocular lens is inserted into the eye from the incision by an intraocular lens insertion apparatus. PTL 1 describes an intraocular lens insertion apparatus.

[Citation List]

[Patent Literature]

[0004]

[PTL 1] Japanese Laid-open Patent Application Publication No. 2020-137894

[Summary of Invention]

upper side from the rear side toward the front side, as illustrated in Fig. 2(b).

[0030] A stage groove 12a, that has a width slightly larger than the diameter of the lens main body of the intraocular lens 2 (lens main body 2a illustrated in Figs. 4(a) and 4(b)), is formed in the stage portion 12. The dimensions of the stage groove 12a in the front-rear direction are set to be larger than the largest dimensions including supports 2b, 2c (see Figs. 4(a) and 4(b)) that extend in both front and rear sides of the intraocular lens 2. Also, the stage portion 12 stores the intraocular lens 2 in a space formed by a bottom face portion 12b of the stage groove 12a, and a top face portion 13a that is situated on the inner side of the storage portion in a state in which the stage lid portion 13 is closed. The bottom face portion 12b and the top face portion 13a form the space in which the intraocular lens 2 is stored in the state in which the stage lid portion 13 is closed. Note that an up-down direction position of the bottom face portion 12b is set to be further upward from the height position of a bottom face of the through hole 10g of the nozzle main body 10, and the bottom face portion 12b and the bottom face of the through hole 10g are linked by a bottom portion inclined face 10e, as illustrated in Fig. 2(b).

[0031] The stage portion 12 and the stage lid portion 13 are integrally formed. The stage lid portion 13 has front-rear direction dimensions that are equivalent to those of the stage

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ABSTRACT

Provided is an intraocular lens insertion apparatus capable of reducing a load applied to an intraocular lens when extruding the intraocular lens. The intraocular lens insertion apparatus includes an apparatus main body that includes an storage portion that stores the intraocular lens in a space formed by a top face portion and a bottom face portion, and a nozzle portion that is disposed further toward a distal end side than the storage portion and that communicates with the storage portion, and moreover that has, on the distal end side, an insertion tube portion that is inserted into an incision; and a extruding member that moves the intraocular lens stored in the storage portion to the distal end side. The extruding member has a support abutting face (31f) that faces the distal end side and that abuts a part of a support, and an upward notched portion that has a bottom face (310g) formed on a basal end side from the support abutting face and facing upward. The upward notched portion is formed at a position at which a gap formed between the bottom face and the nozzle portion is greater than a thickness of a connecting part of the intraocular lens.

FIG. 7