PUMP TUBE UNIT AND ENDOSCOPE SYSTEM

ABSTRACT

~~The purpose of the present invention is to reliably supply water to an endoscope during an inspection or surgery using the endoscope and improve the drainability when a water supply device is stopped. This pump tube unit has: a pump tube which is installed on a pump having a rotating body having a plurality of pressing units disposed on an outer peripheral edge, and which, as the rotating body rotates, is pressed sequentially by any of the plurality of pressing units to repeat actions of delivering a liquid to the downstream side and pulling a fresh liquid from the upstream side; an upstream-side water delivery tube connected to the upstream-side end of the pump tube; a downstream-side water delivery tube connected to the downstream-side end of the pump tube; and a bypass water delivery tube which is connected across the upstream-side water delivery tube and the downstream-side water delivery tube, and recirculates a portion of the liquid flowing in the downstream-side water delivery tube to the upstream-side water delivery tube. The bypass water delivery tube is provided, within a predetermined range excluding both end portions of the bypass water delivery tube, with a small diameter section having a smaller inner diameter than the inner diameter of the other range.~~

A pump tube unit according to the present invention includes a pump tube for sending and drawing liquid, an upstream-side water supply tube connected to an upstream-side end portion of the pump tube, a downstream-side water supply tube connected to a downstream-side end portion of the pump tube, and a bypass water supply tube, connected across the upstream-side water supply tube and the downstream-side water supply tube , and returns a part of the liquid flowing through the downstream-side water supply tube to flow back into the upstream-side water supply tube. The bypass water supply tube has a small-diameter portion in a predetermined range except for both end portions of the bypass water supply tube. The small-diameter portion has an inner diameter smaller than an inner diameter of other range.

[Figure 4]