

- (b) an endoscope including a body portion and an insert portion extending forwardly of said body portion and inserted into said tracheal insert tube;
 - (c) said insert portion of said endoscope comprising an outer tube and an inner tube received in said outer tube, said inner tube being flexible and receiving illumination light transmission means and image transmission means, said outer tube having a semi-hard property, a rear end of said outer tube being detachably attached to a distal end of said body portion of said endoscope; and
 - (d) a slide sleeve axially slidably attached to said outer tube, and fixture means for fixing said slide sleeve to said outer tube at a desired position thereof, said slide sleeve having a fitting sleeve portion formed on a front part thereof, a rear end part of said tracheal insert tube being detachably fitted to said fitting sleeve portion, wherein said fixture means includes (i) a rear end part of said slide sleeve having slits, and (ii) a fixing sleeve threadably engaged with an outer periphery of said slide sleeve and having a tapered surface on an inner periphery thereof, said tapered surface being gradually reduced in diameter rearwardly;
- wherein when said fixing sleeve is threadedly engaged with said slide sleeve, the tapered surface of said fixing sleeve is brought into contact with the rear end part of said slide sleeve to cause the rear end part to be transformed radially inwardly so as to contact an outer periphery of said outer tube under pressure.
12. A tracheal airway apparatus comprising:
- (a) a tracheal insert tube for insertion into a tracheal airway, said tracheal insert tube having a low rigidity;
 - (b) an endoscope including a body portion and an insert portion extending forwardly of said body portion and inserted into said tracheal insert tube;
 - (c) said insert portion of said endoscope comprising an outer tube and an inner tube received in said outer tube, said inner tube being flexible and receiving illumination light transmission means and image transmission means, said outer tube having a semi-hard property, a rear end of said outer tube being detachably attached to a distal end of said body portion of said endoscope; and
 - (d) a slide sleeve axially slidably attached to said outer tube, and fixture means for fixing said slide sleeve to said outer tube at a desired position thereof, said slide sleeve having a fitting sleeve portion formed on a front part thereof, a rear end part of said tracheal insert tube being detachably fitted to said fitting sleeve portion, wherein said fixture means includes (i) a fixing sleeve axially slidably attached to said outer tube of said

- endoscope and threadedly engaged with an inner periphery of the rear part of said slide sleeve, said fixing sleeve having a tapered surface, which is gradually enlarged in diameter forwardly, formed on an inner periphery of a distal end part thereof. (ii) an annular engaging portion formed on an inner periphery of an intermediate portion in an axial direction of said slide sleeve, and (iii) an O-ring interposed between the tapered surface of the distal end part of said fixing sleeve and said engaging portion of said slide sleeve;
- wherein when said fixing sleeve is screwed into said slide sleeve, said O-ring interposed between the tapered surface of the distal end part of said fixing sleeve and said engaging portion of said slide sleeve being deformed to contact the outer periphery of said outer tube under pressure.
13. A tracheal airway apparatus comprising:
- (a) a tracheal insert tube for insertion into a tracheal airway, said tracheal insert tube having a low rigidity;
 - (b) an endoscope including a body portion and an insert portion extending forwardly of said body portion and inserted into said tracheal insert tube;
 - (c) said insert portion of said endoscope comprising an outer tube and an inner tube received in said outer tube, said inner tube being flexible and receiving illumination light transmission means and image transmission means, said outer tube having a semi-hard property, a rear end of said outer tube being detachably attached to a distal end of said body portion of said endoscope; and
 - (d) a slide sleeve axially slidably attached to said outer tube, and fixture means for fixing said slide sleeve to said outer tube at a desired position thereof, said slide sleeve having a fitting sleeve portion formed on a front part thereof, a rear end part of said tracheal insert tube being detachably fitted to said fitting sleeve portion, wherein said fixture means includes (i) a fixing sleeve axially slidably attached to said outer tube of said endoscope and received in a rear part of said slide sleeve, said fixing sleeve having a slit formed therein over an entire length of said fixing sleeve, and (ii) a fixture screw which is screwed into a peripheral wall of the rear part of said slide sleeve;
- wherein said fixture screw being screwed into the peripheral wall of the rear part of said slide sleeve to push the outer peripheral surface of said fixing sleeve, so that said fixing sleeve is reduced in diameter and contacts the outer periphery of said outer tube under pressure.

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