despite the collar being in the 'closed' position, a connection may not have been correctly made and no particular feedback (haptic, tactile or otherwise) may be given to the operator to otherwise assist with a correct connection being made or for even assisting with ensuring a correction is more likely to be made.

SUMMARY OF INVENTION

[0006] It is an object of certain embodiments disclosed herein to provide a connector for use in a medical breathing circuit or respiratory support system that will at least go some way towards improving on the above or which will at least provide the public or the medical profession with a useful choice. It is an alternative or additional object of certain embodiments disclosed herein to provide a connector for use at a terminal end of a medical breathing conduit that enables a releasable yet secure connection to be made with another component.

[0007] Humidified gases can be used to allow for comfortable gases delivery to a patient in some configurations. Humidity prevents the airways from drying out and hence can prevent or minimise damage to the airways and may also improve or assist with maintaining patient comfort when receiving a flow of gases being delivered to their airway(s).

[0008] In a first aspect, there is provided a connector for a component of a medical breathing circuit, the connector configured to connect with a second connector, the connector comprising: an inner body and an outer body, the inner body housing an electrical connection, the outer body configured to be slidable along the inner body between each of an inoperative orientation and an operative orientation with respect to the inner body, the outer body and the inner body being in engagement or in an operative association with each other when the outer body is provided in the operative orientation, and the outer body and the inner body being disengaged from each other or in an inoperative association with each other when the outer body is provided in the inoperative orientation, wherein ~~at least one or each of: (i)~~ a surface of the inner body ~~or (ii) a surface of the outer body~~ comprises ~~of a~~ one or more surface relief feature(s) providing for a resistance to the outer body being moved from the inoperative orientation to the operative orientation and allowing the inner body and the outer body to move together toward the second connector, and wherein the inner body further comprises at least one connection feature configured to retain the connector in connection with the second connector, and one or more latch members, wherein an outside surface of one or each of said one or more latch member(s) comprises said at least one surface relief feature(s),

wherein the latch member(s) is/are configured to deflect inwardly relative to a remainder of the inner body as the outer body moves from the inoperative orientation to the operative orientation, and wherein the outer body is configured to overcome the resistance and house the connection feature of the inner body in the operative orientation.

[0009] At least one or each of a surface of the inner body or a surface of the outer body may comprise a surface relief feature(s) that provide(s) for a first resistance to a force of displacement of the outer body being slidably moved from the