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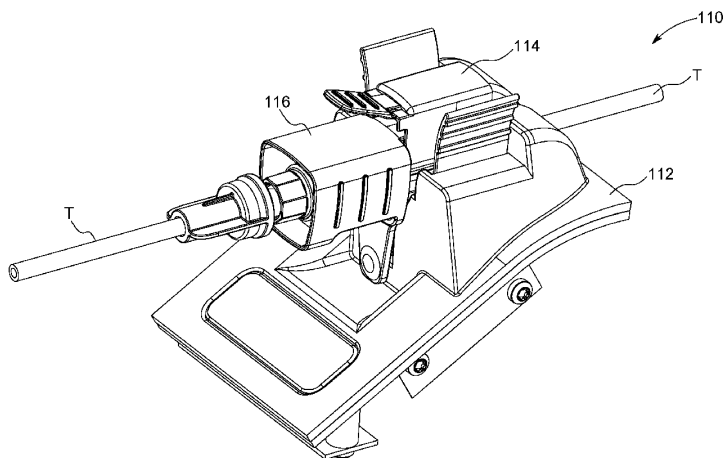


FIG. 20

(57) Abstract: A connection system may include an interface having a housing and a sensor disposed within the housing and configured to be displaced between a first position, a second position, and a third position; a multi-use fitting having at least one engaging surface and a slot and being configured to be secured within the housing so that the at least one engaging surface displaces the sensor between the first position and the second position; and a single-use fitting having a flange and being configured to be secured within the multi-use fitting such that the flange is received within and extends through the slot and displaces the sensor between the second position and the third position. The sensor may be configured to detect displacement between the first, second, and third positions, thereby sensing engagement between the multi-use fitting and the interface and engagement between the single-use fitting and the multi-use fitting.

[Continued on next page]

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