WHAT IS CLAIMED IS:

1. An apparatus for coupling subsea tubular members, comprising:

(a) an alignment sub adapted to be coupled to a stab, the alignment sub comprising:

(i) a generally cylindrical body having one or more fluid, electric, or fiber optic lines extending therethrough, wherein the generally cylindrical body is adapted to be connected to the stab via an interface that enables rotation of the alignment sub relative to the stab while the stab is moved in a direction of a longitudinal axis of the stab,

(ii) one or more couplings coupled to at least one end of the alignment sub, and

(iii) an orientation profile disposed on a surface of the alignment sub; and

(b) a corresponding alignment member having a profile designed to interface with the orientation profile of the alignment sub, ~~one of the alignment sub and~~ the alignment member remaining stationary while the alignment sub ~~other~~ rotates relative to the ~~stationary structure~~alignment member.

2. The apparatus of claim 1, wherein the orientation profile is disposed on an outside surface of the alignment sub.

3. The apparatus of claim 1, wherein the orientation profile is disposed on an inside surface of the alignment sub.

~~4. The apparatus of claim 1, wherein the alignment sub rotates while the alignment member remains stationary.~~

~~5~~4. The apparatus of claim 1, wherein the orientation profile comprises a helical recess.

~~6~~5. The apparatus of claim 1, wherein the orientation profile comprises a helical protrusion.

~~7~~6. The apparatus of claim 1, wherein the alignment member comprises a key and the orientation profile comprises a helical groove, wherein the key is a generally rectangular shaped member having at least one tapered surface at one end thereof.

~~8~~7. The apparatus of claim 1, wherein the orientation profile of the alignment sub comprises a key and the profile of the alignment member comprises a helical groove, wherein the key is a generally rectangular shaped member having at least one tapered surface at one end thereof.

~~9~~8. The apparatus of claim 1, wherein at least a portion of the orientation profile of the alignment sub and at least a portion of the profile of the alignment member are both helically shaped.

~~10~~9. The apparatus of claim ~~9~~8, wherein the orientation profile of the alignment sub comprises a helical groove and the profile of the alignment member comprises a helical protrusion.

~~11~~10. The apparatus of claim ~~9~~8, wherein the orientation profile of the alignment sub comprises a helical protrusion and the profile of the alignment member comprises a helical groove.

~~12~~11. The apparatus of claim ~~9~~8, wherein the orientation profile of the alignment sub and the profile of the alignment member both comprise at least one vertically oriented portion at an axial end thereof.

~~13~~12. The apparatus of claim ~~12~~11, wherein the at least one vertically oriented portion

comprises a tapered shape at one end.

~~14~~13. A system, comprising:

a subsea equipment alignment device for coupling a first subsea tubular member to a second subsea tubular member;

wherein the subsea equipment alignment device comprises one or more fluid, electric, or fiber optic lines extending therethrough and one or more couplings disposed on at least one end thereof;

wherein at least part of the subsea equipment alignment device is adapted to be connected to a stab via an interface that enables rotation of the at least part of the subsea equipment alignment device relative to the stab while the stab is moved in a direction of a longitudinal axis of the stab; and

wherein the subsea equipment alignment device is configured to couple one or more fluid, electric, or fiber optic lines of the first subsea tubular member with one or more fluid, electric, or fiber optic couplings of the second subsea tubular member regardless of a relative orientation of the first subsea tubular member and the second subsea tubular member with respect to each other.

~~15~~14. The system of claim ~~14~~13, wherein the first subsea tubular member comprises a tubing hanger.

~~16~~15. The system of claim ~~15~~14, wherein the second subsea tubular member comprises one of a tree body, a spool, or a flowline connection body.

~~17~~16. The system of claim ~~14~~13, further comprising the first subsea tubular member coupled to the subsea equipment alignment device.

~~18~~17. The system of claim ~~14~~13, further comprising the second subsea tubular member coupled to the subsea equipment alignment device.

~~19~~18. The system of claim ~~14~~13, wherein the subsea equipment alignment device is self-aligning between the first subsea tubular member and the second subsea tubular member.

~~20~~19. The system of claim ~~14~~13, wherein the subsea equipment alignment device comprises:

~~a cylindrical~~ the stab;

a rotating sub disposed around and rotatably coupled to the ~~cylindrical~~ stab, wherein the one or more fluid, electric, or fiber optic lines of the subsea equipment alignment device extend through the rotating sub to the one or more couplings of the subsea equipment alignment device at an end of the rotating sub; and

one or more conduits wrapped around the ~~cylindrical~~ stab, wherein the one or more conduits are coupled to the one or more fluid, electric, or fiber optic lines of the rotating sub at one end and configured to be coupled to the one or more fluid, electric, or fiber optic lines of the second subsea tubular member at an opposite end.

~~21~~20. The system of claim ~~20~~19, wherein the ~~cylindrical~~ stab ~~comprises a production stab sub~~ is configured to be coupled to the second subsea tubular member.

~~22~~21. The system of claim ~~20~~19, wherein the subsea equipment alignment device further comprises an alignment key which is configured to interface with a radially inward facing orientation profile to align the one or more couplings of the rotating sub with the one or more couplings on the first subsea tubular member.

~~23~~22. The system of claim ~~22~~21, wherein the subsea equipment alignment device further comprises an orientation sub having the orientation profile disposed on an inner cylindrical surface thereof, wherein the orientation sub is configured to be coupled to the first subsea tubular member.

~~24~~23. The system of claim ~~20~~19, wherein the rotating sub comprises an orientation profile disposed on an outer cylindrical surface of the rotating sub, wherein the orientation profile is configured to interface with a radially inward facing alignment key to align the one or more couplings of the rotating sub with the one or more couplings on the first subsea tubular member.

~~25~~24. The system of claim ~~24~~23, wherein the subsea equipment alignment device further comprises the alignment key configured to be disposed on an inner cylindrical surface of the first subsea tubular member.

~~26~~25. A system for coupling a first subsea tubular member to a second subsea tubular member, comprising:

a rotating sub rotatably coupled to a ~~portion~~ stab of the first subsea tubular member, the rotating sub being adapted to rotate relative to the stab while at least the stab is being moved in a direction of a longitudinal axis of the stab;

one or more fluid, electric, or fiber optic lines extending through the rotating sub and terminating at one or more couplings disposed at an end of the rotating sub;

an orientation profile disposed on a surface of the rotating sub; and

a corresponding alignment member with a profile designed to interface with the orientation profile of the rotating sub, wherein the alignment member remains stationary while the rotating sub rotates relative to the alignment member.

~~27~~26. The system of claim ~~26~~25, wherein the stab is ~~further comprising a generally cylindrical stab portion~~ coupled to a body of the first subsea tubular member, wherein the rotating sub is disposed around and rotatably coupled to the stab portion of the first subsea tubular member.

~~28~~27. The system of claim ~~27~~26, further comprising conduits wrapped around the stab portion of the first subsea tubular member and coupled to one or more fluid, electric, or

fiber optic lines of the first subsea tubular member at one end and to the one or more fluid, electric, or fiber optic lines of the rotating sub at an opposite end.

~~29~~28. A system for coupling a first subsea tubular member with a second subsea tubular member, comprising:

at least one alignment member comprising a profile formed on a surface of the first subsea tubular member;

a rotating sub adapted to be connected to a stab via an interface that enables rotation of the rotating sub relative to the stab while the stab is moved in a direction of a longitudinal axis of the stab; and

an orientation profile disposed on a surface of the rotating sub, the orientation profile being designed to interface with the profile of the alignment member, wherein the alignment member remains stationary while the rotating sub rotates relative to the alignment member.

~~30~~29. The system of claim ~~29~~28, wherein the profile of the alignment member is located on a radially inside surface of the first subsea tubular member.

30. The system of claim 28, further comprising the stab, wherein the stab is a production stab sub mounted to the second subsea tubular member.