

Claim Listing – U.S. Pat. No. 11,385,415

No.	Claim Limitation
1.P	An adapter for aligning a first fiber optic ferrule inserted from a first side and a second fiber optic ferrule inserted from a second side comprising:
1.a.1	a main body having an opening defined by two opposing side walls, a top surface and a bottom surface,
1.a.2	the opening extending between the first side and the second side and
1.a.3	having a central portion therebetween; and
1.b.1	a plurality of grooves disposed in a second top surface and a plurality of grooves disposed in a second bottom surface of the central portion,
1.b.2	the second top surface and the second bottom surface being different from the top surface and the bottom surface in the main body,
1.b.3	each of the plurality of grooves extending toward a center of the main body.
2	The adapter according to claim 1, further comprising a groove in one of the top surface and the bottom surface.
3	The adapter according to claim 1, further comprising a groove in each of the top and the bottom surfaces.
4	The adapter according to claim 1, wherein the opening is smaller in the center of the main body than on the first side and second side.
5	The adapter according to claim 1, wherein the first side and second side are configured to receive a plurality of fiber optic ferrules.
6.a	The adapter according to claim 1, further comprising a wall disposed within and across the central portion of the main body and between the first side and the second side,

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6.b	the wall having at least one passage therein to allow at least a portion of the fiber optic ferrules inserted from the first side and second side to pass therethrough.
7	The adapter according to claim 6, wherein the at least one passage comprises a plurality of passages, the plurality of passages corresponding to the number of fiber optic ferrules.
8.P	An adapter for fiber optic connectors with a multi-fiber ferrule, the adapter comprising:
8.a.1	an opening extending between a first side and a second side of the adapter,
8.a.2	each of the first side and the second side respectively defined by two opposing side walls, a top surface and a bottom surface,
8.a.3	the opening configured to receive at least two fiber optic connectors from the first side; and
8.b	configured to receive at least two additional fiber optic connectors from the second side to mate with the at least two fiber optic connectors on the first side; and
8.c.1	a central portion between the first side and the second side and
8.c.2	having a plurality of grooves disposed in a second top surface and a plurality of grooves disposed in a second bottom surface of the central portion,
8.c.3	the second top surface and the second bottom surface being different from the respective top surface and the bottom surface of the first side and the second side,
8.c.4	each of the plurality of grooves extending toward a center of the adapter.

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9.a	The adapter according to claim 8, wherein the first side and the second side of the opening are in communication with one another in the central portion,
9.b	the opening being smaller in the central portion than on the first side and the second side.
10	The adapter according to claim 8, wherein the first and second sides are configured to receive a plurality of fiber optic connectors.
11	The adapter according to claim 8, wherein the plurality of grooves in the second top surface of the central portion have a first width and the plurality of grooves in the second bottom surface of the central portion have a second width, and the first and second widths are different.
12.P	An adapter for holding fiber optic connectors, the adapter comprising:
12.a.1	a main body having a width and a height and an opening extending longitudinally from a first side to an opposing second side,
12.a.2	the main body comprising two opposing side walls spaced apart along the width and a first top wall and a first bottom wall spaced apart along the height,
12.a.3	each of the first top wall and the first bottom wall extending widthwise between the two opposing side walls,
12.b	the first top wall having first internal grooves spaced apart along the width and the first bottom wall having second internal grooves spaced apart along the width,
12.c.1	each of the first internal grooves having a first width and each of the second internal grooves having a second width, the first width is greater than the second width, and
12.c.2	the adapter is free of internal walls between a space for two fiber optic connectors adjacent one another on a same side of the adapter

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	in the opening between the opposing side walls along the width and between the first top wall and the first bottom wall along the height.
13	The adapter according to claim 12, wherein the first side and the second side are configured to receive a plurality of fiber optic connectors.
14.a	The adapter according to claim 12, further comprising a wall disposed within and across the central portion of the main body and between the first side and the second side,
14.b	the wall having at least one passage therein to allow at least a portion of the fiber optic ferrules inserted from the first side and second side to pass therethrough.