

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Burris et al.
Serial No. : 13/653,095
Filed : October 16, 2012
Title : COAXIAL CABLE CONNECTOR WITH INTEGRAL RFI
PROTECTION
Docket : HI12-117
Examiner : Duverne, Jean F.
Art Unit : 2833
Conf. No. : 3288

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

AMENDMENT

This paper is being filed in response to the Office Action mailed December 16, 2014. Reconsideration of the present application is respectfully requested in light of the amendments and remarks below, which include, in order of appearance, beginning on separate sheets:

- Amendments to the Claims; and
- Remarks.

PPC Exhibit 2025
Corning v. PPC
IPR2016-01573

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Currently amended) A coaxial cable connector for coupling an end of a coaxial cable to a terminal, the coaxial cable comprising an inner conductor, a dielectric surrounding the inner conductor, an outer conductor surrounding the dielectric, and a jacket surrounding the outer conductor, the connector comprising:

a coupler configured ~~adapted~~ to couple the connector to the terminal;

a body assembled with the coupler, and

a post assembled with the coupler and the body, wherein the post is configured ~~adapted~~ to receive an end of a coaxial cable, and

wherein the coupler and post define a plurality of pairs of electromagnetically coupled faces, wherein a first pair of electromagnetically coupled faces is substantially orthogonal to an adjacent pair of electromagnetically coupled faces ~~RF shielding such that RF signals external to the coaxial cable connector are attenuated such that the integrity of an electrical signal transmitted through coaxial cable connector is maintained regardless of the tightness of the coupling of the connector to the terminal, and without a separate continuity member.~~

2. (Currently amended) The coaxial cable connector of claim 1, wherein RF signals external to the coaxial cable connector are attenuated by at least about 50dB in a range up to about 1000MHz.

3. (Original) The coaxial cable connector of claim 1, wherein a transfer impedance measured from the outer conductor of the coaxial cable to the terminal through the connector averages less than about 0.24 ohms.

4. (Original) The coaxial cable connector of claim 1, wherein the RF signals external to the connector comprise RF signals that ingress into the connector.
5. (Original) The coaxial cable connector of claim 1, wherein the RF signals external to the connector comprise RF signals that egress out from the connector.
6. (Original) The coaxial cable connector of claim 1, wherein the coupler comprises,
 - a step, and
 - a lip,and wherein the post comprises,
 - a flange,
 - a contacting portion
 - and a shoulder.
7. (Currently amended) The coaxial cable connector of claim 6, wherein a first circuitous path including the plurality of pairs of electromagnetically coupled faces is established by at least one of the step, the lip, the flange, the contacting portion and the shoulder, and wherein the first circuitous path attenuates of RF signals external to the connector.
8. (Original) The coaxial cable connector of claim 6, wherein the contacting portion is integral and monolithic with at least a portion of the post.
9. (Currently amended) The coaxial cable connector of claim 1, wherein the terminal comprises an equipment connection port, and wherein the coupler comprises a threaded portion configured adapted to connect with a threaded portion of the equipment connection port, and wherein at least one thread on the coupler has a pitch angle different than a pitch angle of at least one thread of the equipment connection port.

10. (Original) The coaxial cable connector of claim 9, wherein the pitch angle of the thread of the coupler is about 2 degrees different than the pitch angle of the thread of the equipment connection port.
11. (Original) The coaxial cable connector of claim 9, wherein the pitch angle of the thread of the coupler is about 62 degrees, and the pitch angle of the thread of the equipment connection port is about 60 degrees.
12. (Original) The coaxial cable connector of claim 9, wherein the threaded portion of the coupler and the threaded portion of the equipment connection port, establish a second circuitous path, and wherein the second circuitous path attenuates RF signals external to the connector.
13. (Currently amended) A coaxial cable connector for coupling an end of a coaxial cable to an equipment connection port, the coaxial cable comprising an inner conductor, a dielectric surrounding the inner conductor, an outer conductor surrounding the dielectric, and a jacket surrounding the outer conductor, the connector comprising:
- a coupler ~~configured adapted~~ to couple the connector to the equipment connection port;
 - a body assembled with the coupler, and
 - a post assembled with the coupler and the body, wherein the post is configured adapted to receive an end of a coaxial cable, and wherein the post comprises an integral contacting portion, and wherein the contacting portion is monolithic with at least a portion of the post, and
- wherein when assembled the coupler and post provide at least one circuitous path defined a plurality of pairs of electromagnetically coupled faces of the coupler and post, wherein a first pair of electromagnetically coupled faces is substantially orthogonal to an adjacent pair of electromagnetically coupled faces resulting in RF shielding such that RF signals external to the coaxial cable connector are attenuated, such that the integrity of an electrical signal transmitted

~~through coaxial cable connector is maintained regardless of the tightness of the coupling of the connector to the terminal and without a separate continuity member.~~

14. (Original) The coaxial cable connector of claim 13, wherein RF signals external to the coaxial connector comprise at least one of RF signals that ingress into the connector and RF signals that egress out from the connector.

15. (Original) The coaxial cable connector of claim 13, wherein RF signals are attenuated by at least about 50dB in a range up to about 1000MHz.

16. (Original) The coaxial cable connector of claim 13, wherein a transfer impedance averages about 0.24 ohms.

17. (Original) The coaxial cable connector of claim 13, wherein the at least one circuitous path comprises a first circuitous path and a second circuitous path.

18. (Original) The coaxial cable connector of claim 17, wherein the coupler comprises a lip and a step, and the post comprises a flange and a shoulder, and wherein the first circuitous path is established by at least one of the step, the lip, the flange, the contacting portion and the shoulder.

19. (Currently amended) The coaxial cable connector of claim 17, wherein the terminal comprises an equipment connection port, and wherein the coupler comprises a threaded portion configured ~~adapted~~ to connect with a threaded portion of the equipment connection port, and wherein the threaded portion of the coupler and the threaded portion of the equipment connection port establish a second circuitous path.

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