



TFW 2831

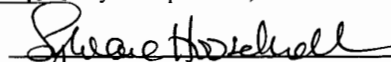
Docket No.: M00506-70026.US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Clark, et al.
Serial No: 10/336,535
Confirmation No.: 9466
Filed: January 3, 2003
For: MULTI-PAIR DATA CABLE WITH CONFIGURABLE CORE
FILLING AND PAIR SEPARATION
Examiner: Chau N. Nguyen
Art Unit: 2831

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 7th day of September, 2005.


Sylvia Householder

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

Sir:

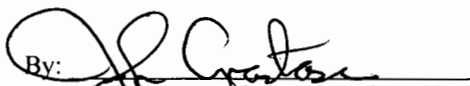
Transmitted herewith are the following documents:

- ☒ Response to Notice of Non-Compliant Amendment
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 395-7000.

No check is enclosed. If a fee is required, the Commissioner is hereby authorized to charge any underpayment to or refund any overpayment to Deposit Account No. 50/2762.

Respectfully submitted,
Clark, et al., Applicant

By: 
John N. Anastasi, Reg. No. 37,765
LOWRIE, LANDO & ANASTASI, LLP
Riverfront Office Park
One Main Street
Cambridge, MA 02142
(617) 395-7000

Date: September 7, 2005

770721.1



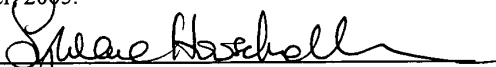
Docket No.: M00506.70026.US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Clark et al.
Serial No: 10/336,535
Confirmation No: 9466
Filed: January 3, 2003
For: MULTI-PAIR DATA CABLE WITH CONFIGURABLE
CORE FILLING AND PAIR SEPARATION
Examiner: Chau N. Nguyen
Art Unit: 2831

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to **Mail Stop Amendment** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 7th day of September, 2005.


Sylvan Householder

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

RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT

Sir:

In response to the Notice of Non-Compliant Amendment mailed August 15, 2004, Applicant respectfully requests the Examiner to enter the following revised "**Amendments to the Claims**" section of Applicant's Amendment filed August 5, 2005.

In accordance with 37 C.F.R. 1.121(h), the entire listing of the claims is resubmitted herewith. The status identifier for claims 21-24 has been corrected from "allowed" to "previously presented."

766578.2

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A finished communications cable comprising:
 - a plurality of twisted pairs of insulated conductors comprising a first twisted pair of insulated conductors and a second twisted pair of insulated conductors;
 - a substantially flat configurable dielectric separator disposed between the plurality of twisted pairs of conductors in the finished communications cable, ~~that separates and arranged~~ so as to separate the first twisted pair of insulated conductors from the second twisted pair of insulated conductors and so as to be substantially flat in a radial cross-section taken through the finished communications cable; and
 - a jacket enclosing the plurality of twisted pairs of insulated conductors and the configurable dielectric separator;
 - wherein the plurality of twisted pairs of insulated conductors and the substantially flat configurable dielectric separator are twisted about a common axis to form the finished communications cable.
2. canceled.
3. (currently amended) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator ~~is arranged to have no more than one concave surface to provide a groove extending along a longitudinal length of the~~ communications cable consists of dielectric materials.
4. canceled.

5. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator includes a foamed polymer.
6. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator includes a woven fiberglass tape.
7. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator includes a flame-retardant, low-dielectric constant, foamed polymer tape.
8. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator includes a foamed fluorinated ethylene propylene material.
9. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator is a flame-retardant, foamed polymer tape.
10. (original) The communications cable as claimed in claim 1, further comprising a central core filling material disposed in a core of the communications cable between the first and second twisted pairs of insulated conductors.
11. (original) The communications cable as claimed in claim 10, wherein the central core filling is made of a same material as the substantially flat configurable dielectric separator.
12. canceled
13. (original) The communications cable as claimed in claim 1, further comprising a conductive shield substantially surrounding the plurality of twisted pairs of insulated conductors and the substantially flat configurable dielectric separator.
14. canceled.

15 (currently amended) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator comprises a conductive layer ~~and is arranged so that the conductive layer faces each of the plurality of twisted pairs of insulated conductors.~~

16. (currently amended) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator comprises an aluminum/mylar tape, ~~an aluminum layer of the aluminum/mylar tape facing the plurality of twisted pairs of insulated conductors.~~

17. (original) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator is arranged to provide a sufficient spacing between the first twisted pair of insulated conductors and the second twisted pair of insulated conductors so as to provide a desired crosstalk isolation between the first twisted pair of insulated conductors and the second twisted pair of insulated conductors.

18. canceled.

19. (previously presented) The communications cable as claimed in claim 1, wherein the substantially flat configurable dielectric separator has a concave shape.

20. (previously presented) The communication cable as claimed in claim 19, wherein the substantially flat configurable dielectric separator does not extend more than 180 around any one of the plurality of twisted pairs of insulated conductors.

21. (previously presented) An unshielded communications cable comprising:
a plurality of twisted pairs of insulated conductors comprising a first twisted pair of insulated conductors and a second twisted pair of insulated conductors;
a substantially flat configurable dielectric separator that consists of non-conductive, dielectric materials disposed between the plurality of twisted pairs of conductors that

separates the first twisted pair of insulated conductors from the second twisted pair of insulated conductors; and

a jacket enclosing the plurality of twisted pairs of insulated conductors and the configurable dielectric separator;

wherein the substantially flat configurable dielectric separator includes a foamed polymer.

22. (previously presented) The communications cable as claimed in claim 21, wherein the substantially flat configurable dielectric separator includes a flame-retardant, low-dielectric constant, foamed polymer tape.

23. (previously presented) The communications cable as claimed in claim 21, wherein the substantially flat configurable dielectric separator includes a foamed fluorinated ethylene propylene material.

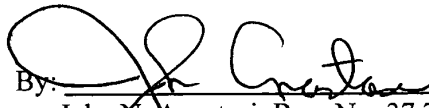
24. (previously presented) The communications cable as claimed in claim 21, wherein the substantially flat configurable dielectric separator is a flame-retardant, foamed polymer tape.

CONCLUSION

In view of the foregoing amendments and remarks, this application should now be in condition for allowance. A notice to this effect is respectfully requested. If the Examiner believes, after this amendment, that the application is not in condition for allowance, the Examiner is requested to call the Applicant's attorney at the telephone number listed below.

Respectfully submitted,

William Clark et al., Applicants

By: 
John N. Anastasi, Reg. No. 37,765
LOWRIE, LANDO & ANASTASI, LLP
One Main Street
Cambridge, Massachusetts 02142
United States of America
Telephone: 617-395-7000
Facsimile: 617-395-7070

Docket No.: M00506.70026.US

Date: September 7, 2005