

Annex 1 – Unconditionally Amended Claims

1. A ~~Use of a communication system (1), the communication system (1)~~ comprising a cable transmission network (3) with several terminal connecting points (6) provided with high-frequency transmission and/or receiving means (10), in which the cable transmission network (3) furthermore comprises signal processing means for processing high-frequency signals that can be transported via the cable transmission network (3), ~~characterized in that wherein~~ the signal processing means comprise prevention means for at least partially preventing the generation of intermodulation products in the signal processing means, wherein said prevention means are provided with a pre-connected filter comprising a high-pass filter (20) for stopping voltage peaks through reflection of the energy contained in the energy peaks, ~~characterized in that the prevention means is used for the purpose of at least partially preventing the generation of intermodulation products in the signal processing means.~~
2. A ~~use communication system (1)~~ according to claim 1, wherein the high-pass filter (20) comprises an LC-filter including at least one coil (26) and at least one capacitor (28).
3. A ~~use communication system (1)~~ according to claim 2, wherein the capacitor (28) is a high-voltage capacitor.
4. A ~~use communication system (1)~~ according to claim 3, wherein the high-voltage capacitor (28) has a relatively low temperature coefficient.
5. A ~~use communication system (1)~~ according to any one of the preceding claims 1 through 4, wherein the signal processing means comprise a splitter and/or an insulator and/or an amplifier and/or a tap and/or a wall connection and/or a repeater and/or a router and/or a switch and/or a gateway and/or a multiplexer and/or a demultiplexer.
6. A ~~use communication system (1)~~ according to any one of the preceding claims 1 through 5, wherein the cable transmission network (3) is arranged as a central receiving system, for example for radio and/or television signals.

7. A ~~use communication system~~ according to any one of the preceding claims 1 through 6, wherein the cable transmission network (3) comprises a bidirectional network.

8. ~~Use of signal~~ Signal processing means ~~for in a use in-of~~ a communication system (1) according to any one of the preceding claims 1 through 7, ~~characterized in that~~ wherein the signal processing means comprise prevention means for at least partially preventing the generation of intermodulation products in the signal processing means, wherein said prevention means are provided with a pre-connected filter comprising a high-pass filter (20) for stopping voltage peaks through reflection of the energy contained in the energy peaks, ~~characterized in that the prevention means is used for the purpose of at least partially preventing the generation of intermodulation products in the signal processing means.~~

Annex 2 – Conditionally Amended Claims

1. ~~A use of a communication system (1), the communication system (1) comprising a cable transmission network (3) with several terminal connecting points (6) provided with high-frequency transmission and/or receiving means (10), in which the cable transmission network (3) furthermore comprises signal processing means for processing high-frequency signals that can be transported via the cable transmission network (3), characterized in that wherein the signal processing means comprise prevention means for at least partially preventing the generation of intermodulation products in the signal processing means, wherein said prevention means are provided with a pre-connected filter comprising a high-pass filter (20) for stopping voltage peaks through reflection of the energy contained in the energy peaks, characterized in that the prevention means is used for the purpose of at least partially preventing the generation of intermodulation products in the signal processing means by stopping voltage peaks through reflection of the energy contained in the energy peaks using the high pass filter (20).~~
2. A ~~use communication system (1)~~ according to claim 1, wherein the high-pass filter (20) comprises an LC-filter including at least one coil (26) and at least one capacitor (28).
3. A ~~use communication system (1)~~ according to claim 2, wherein the capacitor (28) is a high-voltage capacitor.
4. A ~~use communication system (1)~~ according to claim 3, wherein the high-voltage capacitor (28) has a relatively low temperature coefficient.
5. A ~~use communication system (1)~~ according to any one of the preceding claims 1 through 4, wherein the signal processing means comprise a splitter and/or an insulator and/or an amplifier and/or a tap and/or a wall connection and/or a repeater and/or a router and/or a switch and/or a gateway and/or a multiplexer and/or a demultiplexer.

6. A ~~use communication system (1)~~ according to any one of the preceding claims 1 through 5, wherein the cable transmission network (3) is arranged as a central receiving system, for example for radio and/or television signals.

7. A ~~use communication system (1)~~ according to any one of the preceding claims 1 through 6, wherein the cable transmission network (3) comprises a bidirectional network.

8. ~~Use of signal~~Signal processing means ~~for in a use of~~ a communication system (1) according to any one of the preceding claims 1 through 7, ~~characterized in that~~wherein the signal processing means comprise prevention means for at least partially preventing the generation of intermodulation products in the signal processing means, wherein said prevention means are provided with a pre-connected filter comprising a high-pass filter (20) for stopping voltage peaks through reflection of the energy contained in the energy peaks, characterized in that the prevention means is used for the purpose of at least partially preventing the generation of intermodulation products in the signal processing means by stopping voltage peaks through reflection of the energy contained in the energy peaks using the high-pass filter (20).