

Title (en)
DSL REPEATER

Title (de)
DSL-ZWISCHENVERSTÄRKER

Title (fr)
REPETEUR DSL

Publication
EP 1260072 A4 20030416 (EN)

Application
EP 01916220 A 20010221

Priority

- US 0106017 W 20010221
- US 18439200 P 20000223
- US 56947000 A 20000512

Abstract (en)
[origin: WO0163866A1] A DSL repeater includes an upstream amplifying element (314) and upstream filter (312), a downstream amplifying element (304) and a downstream filter (302). The amplifying elements and filters are disposed between a pair of electromagnetic hybrids (322, 324), which couple the repeater to the loop. The downstream filter reduces or eliminates the effect of upstream signal leakage through the hybrid on the downstream signal. Likewise, the upstream filter reduces or eliminates the effect of downstream signal leakage through the hybrid on the upstream signal. The amplifying elements may comprise amplifying equalizers, which provide more amplification to higher frequency signals than to lower frequency signals. A dedicated twisted pair may deliver DC power to the repeater from the center office.

IPC 1-7
H04B 3/38; **H04M 11/06**

IPC 8 full level
H04B 3/36 (2006.01); **H04B 3/38** (2006.01); **H04L 5/14** (2006.01); **H04L 25/52** (2006.01); **H04M 11/06** (2006.01)

CPC (source: EP)
H04B 3/36 (2013.01); **H04L 5/14** (2013.01)

Citation (search report)

- [XY] US 4970722 A 19901113 - PRESCHUTTI JOSEPH P [US]
- [Y] US 5912895 A 19990615 - TERRY JOHN BRIAN [US], et al
- [A] US 4277655 A 19810707 - SURPRENANT RONALD J
- [Y] US 4259642 A 19810331 - DERBY JEFFREY H
- [X] US 5790174 A 19980804 - RICHARD ARTHUR A [US], et al
- See references of WO 0163866A1

Designated contracting state (EPC)
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WO 0163866 A1 20010830; AU 4327401 A 20010903; EP 1260072 A1 20021127; EP 1260072 A4 20030416

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