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(71) Applicant (for all designated States except US): NORWEB PLC [GB/GB]; Talbot Road, Manchester M16 0HQ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BROWN, Paul, Anthony [GB/GB]; 30 Apperigg, Kendal, Cumbria LA9 6EA (GB).

(74) Agents: HACKNEY, Nigel, John et al.; Mewburn Ellis, York House, 23 Kingsway, London WC2B 6HP (GB).

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(54) Title: COUPLING OF TELECOMMUNICATIONS SIGNALS TO A BALANCED POWER DISTRIBUTION NETWORK

(57) Abstract

The present invention provides an overhead balanced electricity distribution and/or power transmission network (1201), the network including input means (1301) for the input onto the network of a telecommunications signal having a carrier frequency greater than approximately 1MHz from an unbalanced source and output means (1301) for removing said telecommunications signal from the network, wherein said input means and said output means provide impedance matching between said network and said source. Thus, propagation of HF communication signals over such networks is optimised, and the input and output means ("conditioning units") provide for interconnection between a source e.g. a relatively low impedance unbalanced HF (possibly coaxial) termination and a high impedance balanced OH EDN, and provide efficient unbalanced to balanced impedance transformation and termination.

