

Title (en)

Process and system for operating and monitoring via their power distribution network discontinuously driven electrical loads

Title (de)

Verfahren und Anlage zum Betreiben und Überwachen diskontinuierlich betriebener elektrischer Verbraucher über deren Versorgungsleitungen

Title (fr)

Procédé et système pour alimenter et superviser des charges électriques alimentées de manière discontinue, via leur réseau de distribution

Publication

EP 0893941 A3 20001213 (DE)

Application

EP 98113454 A 19980718

Priority

DE 19731150 A 19970721

Abstract (en)

[origin: EP0893941A2] The method involves controlling loads over a provided AC voltage supply in an AC power distribution network, whereby operating pauses are provided, in which all loads are, or can be, switched off, and in which the AC voltage supply is at least occasionally supplied on the network. An amplitude of individual half-waves or half-wave groups of the AC voltage supply, are changed during the operating pauses, to transmit an information over the network. The information is preferably transferred as a binary signal, whereby the amplitude of one, preferably an uneven amount of half-waves, is reduced or switched off, for the transmission of a determined binary value.

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H05B 37/02; H02J 13/00; H04B 3/54

IPC 8 full level

H05B 37/02 (2006.01); **H05B 37/03** (2006.01)

CPC (source: EP)

H05B 47/185 (2020.01); **H05B 47/22** (2020.01)

Citation (search report)

- [X] US 5107184 A 19920421 - HU FENG-KANG [US], et al
- [X] WO 9706655 A1 19970220 - PHILIPS ELECTRONICS NV [NL], et al
- [X] EP 0038877 A1 19811104 - ROUET PAUL
- [A] DE 4214882 A1 19930128 - SCHMIDT HARTMUT DIPL PHYS [DE]
- [X] US 4348582 A 19820907 - BUDEK JERZY A
- [XA] FR 2114026 A1 19720630 - ENGLISH ELECTRIC CO LTD
- [X] DE 4136673 A1 19930513 - RINGWALD EUGEN [DE]
- [X] FR 2649267 A2 19910104 - RUAUX CHRISTIAN [FR]
- [A] FR 2685849 A1 19930702 - MACQ ELECTRONIQUE SA NV [BE]
- [A] EP 0347317 A1 19891220 - FORCLUM FORCE LUMIERE ELECT [FR]
- [A] WO 9524820 A1 19950914 - AIRPORT TECH SCANDINAVIA [SE], et al

Cited by

EP2182778A1; DE102011053688B3; CN101965079A; DE102007062999B3; DE102005029728A1; DE102005029728B4; DE19925597A1; DE19925597C2; CN118092980A; WO2012138304A1; WO0120748A1; WO02101904A3

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