

Title (en)  
ELECTRIC LINE SYSTEM.

Title (de)  
ELEKTRISCHES LEITUNGSSYSTEM.

Title (fr)  
SYSTEME DE LIGNES ELECTRIQUES.

Publication  
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Application  
**EP 94902666 A 19931202**

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Abstract (en)  
[origin: US5825101A] PCT No. PCT/EP93/03395 Sec. 371 Date Jun. 30, 1995 Sec. 102(e) Date Jun. 30, 1995 PCT Filed Dec. 2, 1993 PCT Pub. No. WO94/16484 PCT Pub. Date Jul. 21, 1994An electrical line system has at least one magnetically compensated line system unit with at least two main conductors for transmitting electrical energy and further has at least one auxiliary conductor extending parallel to the at least two main conductors. The at least two main conductors and the at least one auxiliary conductor are phase-synchronized when the at least one auxiliary conductor carries current during operation of the electrical line system. The at least two main conductors and the at least one auxiliary conductor are arranged in a spatial arrangement relative to a first reference point in a first space extending parallel to the electrical line system, and the currents flowing in the at least two main conductors and the at least one auxiliary conductor are selected such that a vector sum of the magnetic field components emanating from the at least two main conductors and the at least one auxiliary conductor is substantially equal to zero at the first reference point. The spatial arrangement is defined by a distance between the at least two main conductors and the at least one auxiliary conductor relative to the first reference point and by a spatial distribution of the at least two main conductors and the at least one auxiliary conductor relative to the first reference point.

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**H02G 7/20**; **B60M 1/06**

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