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(71) Applicant (for all designated States except US): **ITRON ELECTRICITY METERING, INC.** [US/US]; 313-B North Highway 11, West Union, SC 29696 (US).

(72) Inventors: **BORISOV, Vladimir**; 212 East South 5th Street, Seneca, SC 29678 (US). **CHIUMMIENTO, Philippe**; 965 Bernwood Circle, Seneca, SC 29672 (US). **LAPUSHIN, Semyon**; 6667 Gunstock Lane, Tucker, GA 30084 (US). **THUMATY, Sudhir**; 820 College Avenue, Apartment 3, Clemson, SC 29631 (US).

(74) Agent: **MOOSE, Richard, M.**; Dority & Manning, Attorneys at Law, P.A., P.O. Box 1449, Greenville, SC 29602-1449 (US).

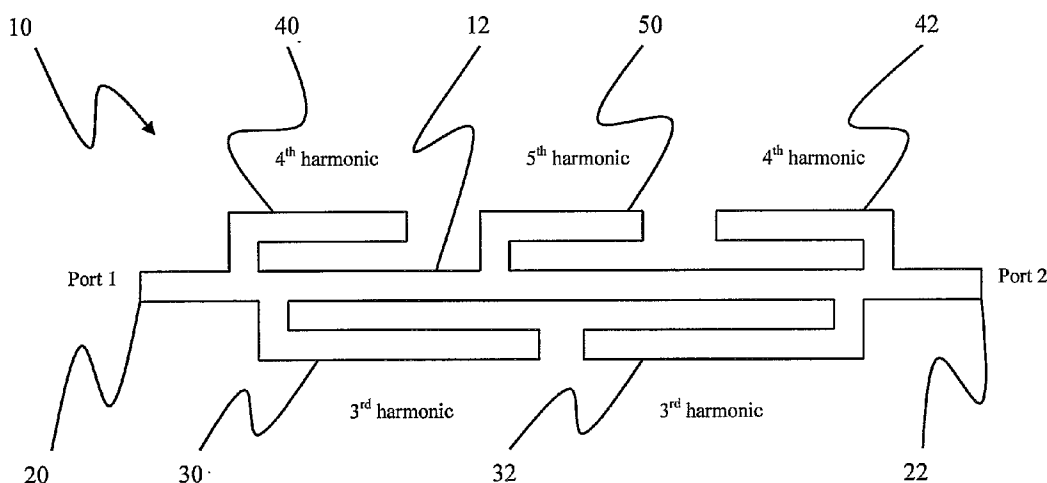
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(54) Title: EMBEDDED ANTENNA AND FILTER APPARATUS AND METHODOLOGY



(57) Abstract: Apparatus and methodology are disclosed for providing effective transmission of data to and/or from an electricity meter by providing embedded radio frequency components. An antenna and stripline or microline filter arrangement are provided as embedded components in association with a transmitter or transceiver portion of the electricity meter's metrology circuitry so as to provide control of out of band harmonic radiation and to provide enhanced signal transmission to and/or from the electricity meter, to accomplish automated meter reading communications or similar. The antenna element is configured and mounted such that, once the electricity meter is fully assembled, the meter case itself can be used as part of a radiating element. An overall resulting integrated design can achieve greater economy utilizing printed circuit board approaches with no additional parts, and with less uncontrolled surface radiation because of the otherwise buried or embedded structure.

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