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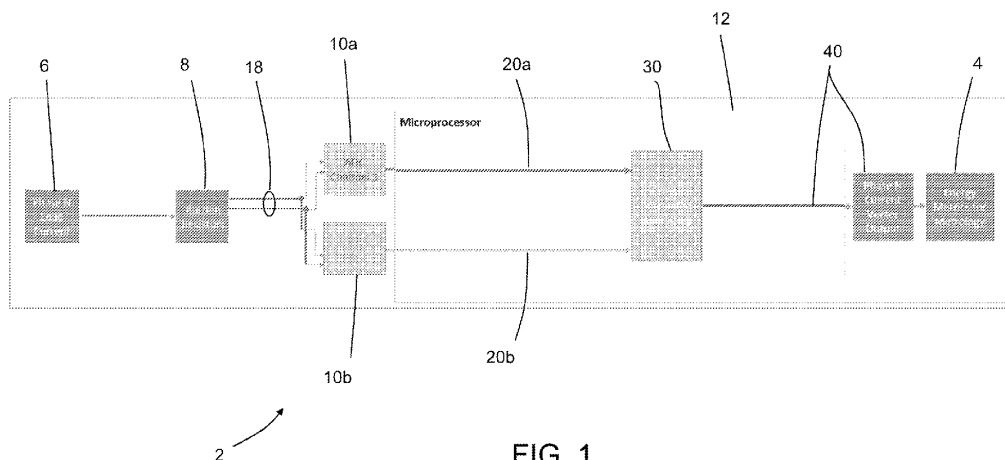


FIG. 1

(57) **Abstract:** An electricity meter (2) for measuring one or more properties (4) of an electrical input (6) associated with a power supply, comprises a first analogue-to-digital converter (ADC) (10a), a second ADC (10b) and a processing resource (12). The first ADC (10a) is configured to receive an ADC input signal (18) which is representative of the electrical input and to generate, from the ADC input signal (18), a first ADC output data sequence (20a) which is representative of the electrical input during a time period. The second ADC (10b) is configured to receive the ADC input signal (18) which is representative of the electrical input and to generate, from the ADC input signal (18), a second ADC output data sequence (20b) which is representative of the electrical input during the time period. The processing resource (12) is configured to determine a cross-correlated average data sequence (40) corresponding to the time period based on the first and second ADC output data sequences (20a, 20b) and to determine the one or more properties (4) of the electrical input (6) during the time period based on the cross-correlated average data sequence (40) corresponding to the time period.

[Continued on next page]

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