

4158 results for entropy and transformer - Collection: FAMPAT

#	  Title	Publication number	1st app. date	Applicant/Assignee	1st publ. date	Publ. date	
1.	Transformer risk prediction method based on markov and entropy weight fuzzy comprehensive evaluation	CN103324992	2013-07-11	EAST CHINA ELECTRIC POWER RESEARCH INSTITUTE* SHANGHAI MUNICIPAL ELECTRIC POWER* STATE GRID CORPORATION OF CHINA (SGCC)*	2013-09-25	2013-09-25	

The invention relates to a **transformer** risk prediction method based on markov and **entropy** weight fuzzy comprehensive evaluation. The method comprises the following steps of: (1) establishing a **transformer** full-stage model based on a markov process; (2) acquiring a markov state transition diaphragm of a **transformer** at a running state according to the **transformer** full-stage model, and the probability of the **transformer** at full state as well as the fault frequency of each part of the **transformer**; (3) calculating the fault severity of each part in faults through an **entropy** weight fuzzy algorithm; and (4) determining the risk of each part of the **transformer** according to the fault frequency and the fault severity of each part. Compared with the prior art, the **transformer** risk prediction method based on markov and **entropy** weight fuzzy comprehensive evaluation provided by the invention has the advantages of high precision, high accuracy and the like.

建立变压器全状态模型

计算变压处于各状态的
概率和相应的故障频率

计算各部位发生故障时
的故障严重程度

判定变压器各部位的风险

建立变压器全状态模型

计算变压处于各状态的
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判定变压器各部位的风险

可用状态-正常运行

计划停运

非计划停运

4类检修

5类检修

6类检修

7类检修

8类检修

9类检修

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1000类检修

建立变压器全状态模型

计算变压处于各状态的
概率和相应的故障频率

计算各部位发生故障时
的故障严重程度

判定变压器各部位的风险

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的故障严重程度

判定变压器各部位的风险

可用状态-正常运行

计划停运

非计划停运

4类检修

5类检修

6类检修

7类检修

8类检修

9类检修

10类检修

11类检修

12类检修

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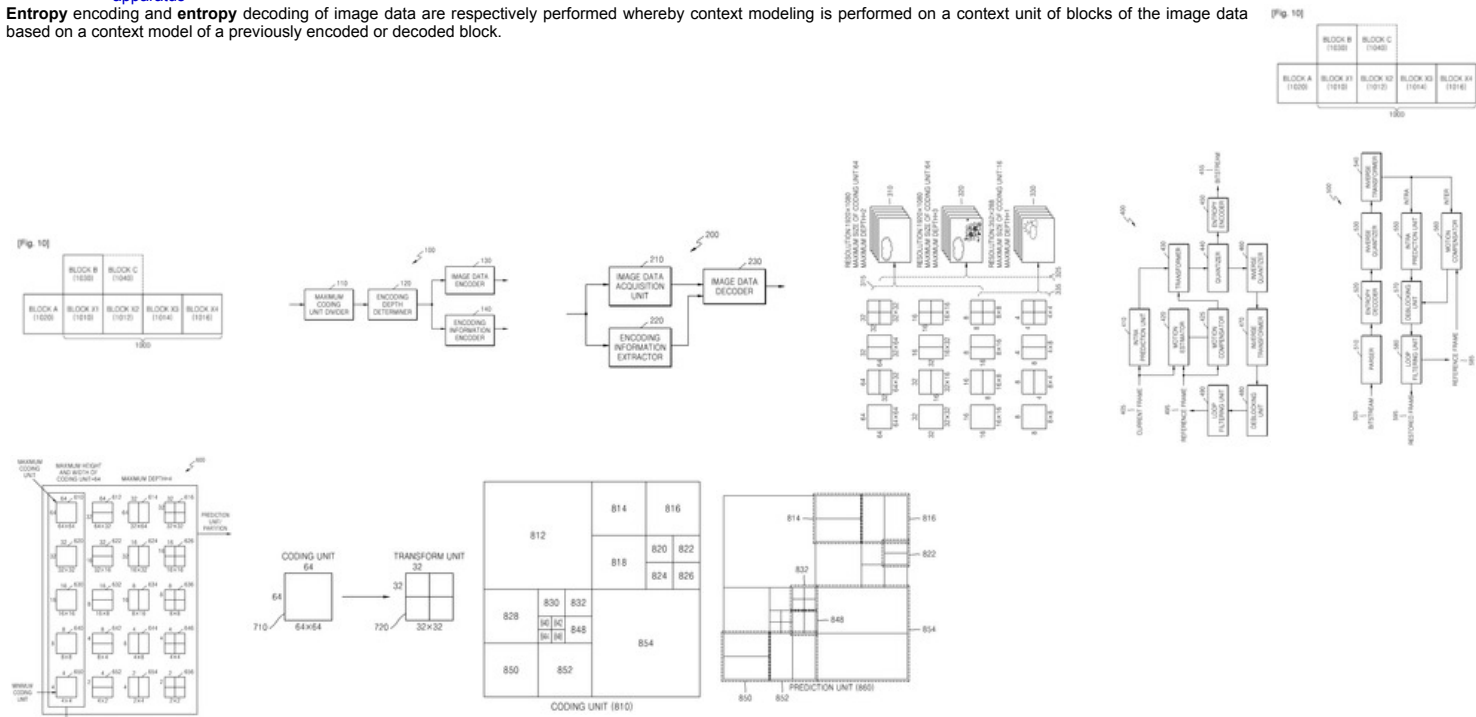
100类检修

$$f_i = p_i \sum_{j \neq i} \lambda_{ij}$$
$$C = \begin{bmatrix} c_{11} & c_{12} & \cdots & c_{1l} \\ c_{21} & c_{22} & \cdots & c_{2l} \\ \vdots & \vdots & \ddots & \vdots \\ c_{m1} & c_{m2} & \cdots & c_{ml} \end{bmatrix}$$
$$c_y = (\max_i c_{iy} - c_y) / (\max_i c_{iy} - \min_i c_{iy})$$
$$C = \begin{bmatrix} c_{11} & c_{12} & \cdots & c_{1l} \\ c_{21} & c_{22} & \cdots & c_{2l} \\ \vdots & \vdots & \ddots & \vdots \\ c_{m1} & c_{m2} & \cdots & c_{ml} \end{bmatrix}; H_j = -k \sum_{i=1}^m f_{ij} \ln f_{ij}, \omega_j = (1 - H_j) / (n - \sum_{j=1}^l H_j),$$

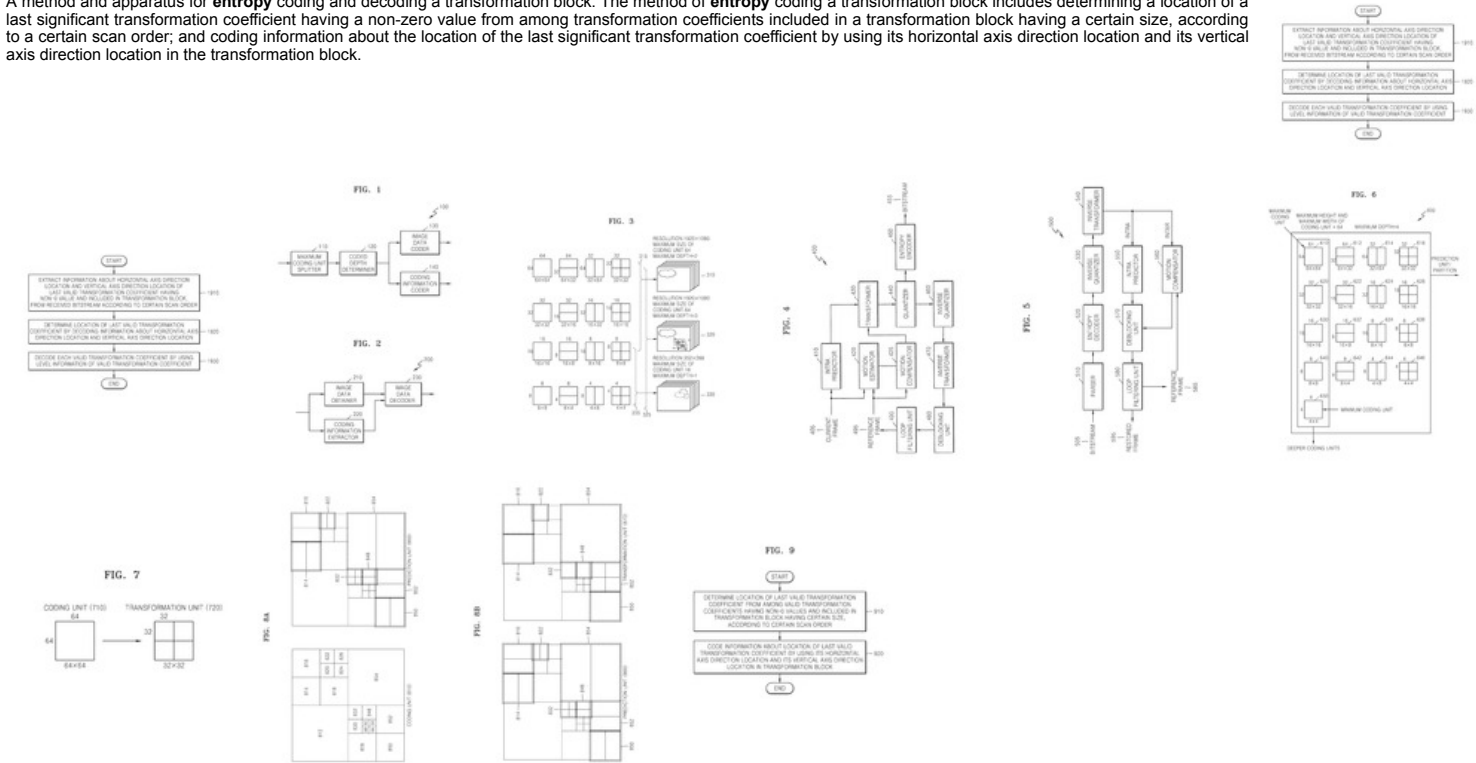
2.	Transformer fault diagnosis method based on entropy weight method and grey correlation analysis	CN105242155	2015-11-18	NANJING INSTITUTE OF TECHNOLOGY*	2016-01-13	2016-01-13	
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The invention discloses a **transformer** fault diagnosis method based on an **entropy** weight method and grey correlation analysis, belonging to the technical field of **transformer** fault diagnosis. The **transformer** fault diagnosis method comprises the steps of: carrying out standardization processing on **transformer** fault sample data; adopting the **entropy** weight method to determine weight of a **transformer** fault diagnosis index; and determining a fault type of a **transformer** through calculating Grey Euclid weighted correlation degree. The **transformer** fault diagnosis method makes full use of all information of gas in oil data, exerts the advantage that the grey correlation is applicable to a small sample and

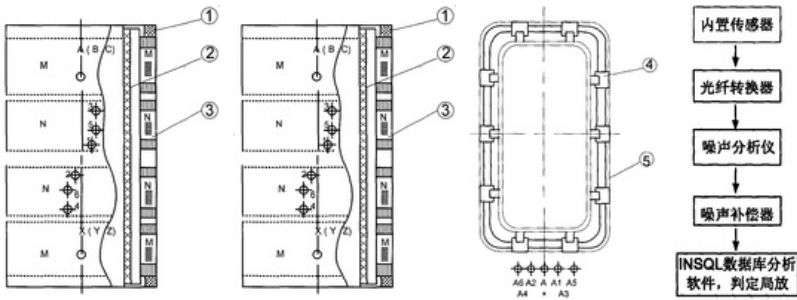
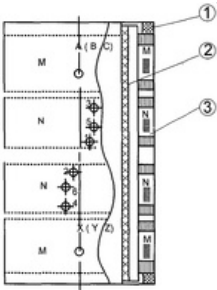
Entropy encoding and entropy decoding of image data are respectively performed whereby context modeling is performed on a context unit of blocks of the image data based on a context model of a previously encoded or decoded block.



A method and apparatus for entropy coding and decoding a transformation block. The method of entropy coding a transformation block includes determining a location of a last significant transformation coefficient having a non-zero value from among transformation coefficients included in a transformation block having a certain size, according to a certain scan order; and coding information about the location of the last significant transformation coefficient by using its horizontal axis direction location and its vertical axis direction location in the transformation block.



The invention discloses an amorphous alloy dry-type transformer coil insulating structure and a method of removing local discharge signal noise. The amorphous alloy dry-type transformer coil insulating structure comprises a coil end (1), coil segments, a coil winding (3) and an outer coil part (5), and the amorphous alloy dry-type transformer coil insulating structure is characterized in that the coil end (1) is a rectangular end ring with beautiful outline and strong mechanical strength; the coil segments are isolated by dovetail cushion blocks, so that the space is enough to facilitate the heat dissipation and complete impregnation of impregnating varnish; and the coil winding (3) is wound in a rectangular cylindrical structure, the outer coil part (5) is subjected to bundling, vacuum pressure drying, varnish impregnating and curing processes so as to guarantee uniform field intensity distribution and strong anti-short circuit capability. In the local discharge monitoring process, a sensor collects a discharge signal and sends the discharge signal to a noise analyzer, and the noise analyzer separates the periodical narrow-band interference and white noise in the noise; and compensation signals with equal compensation size and opposite polarities are compensated, a real local discharge signal can be obtained, and a technician can accurately judge the insulating problem of the amorphous alloy dry-type transformer.

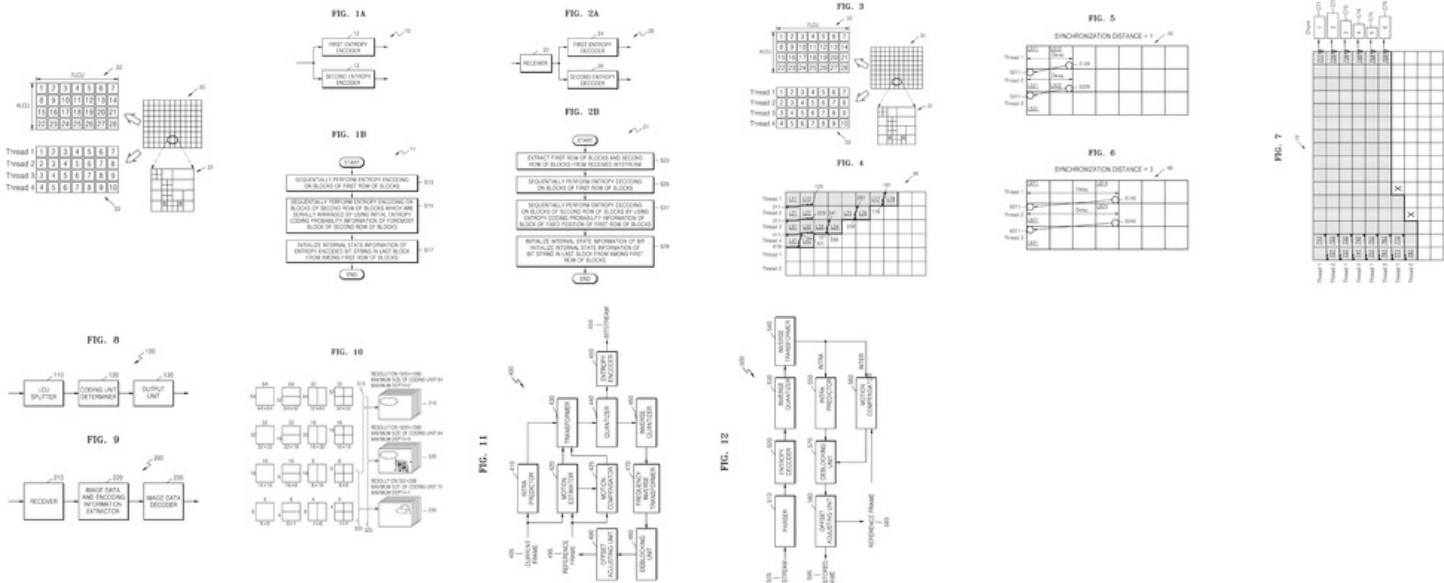
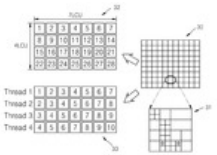


8. Environment-friendly high-melting-point durable copper alloy section bar for transformer and manufacturing process of copper alloy section barCN1081181862018-02-06CHONGQING ENTROPY TECHNOLOGY*2018-06-052018-06-05

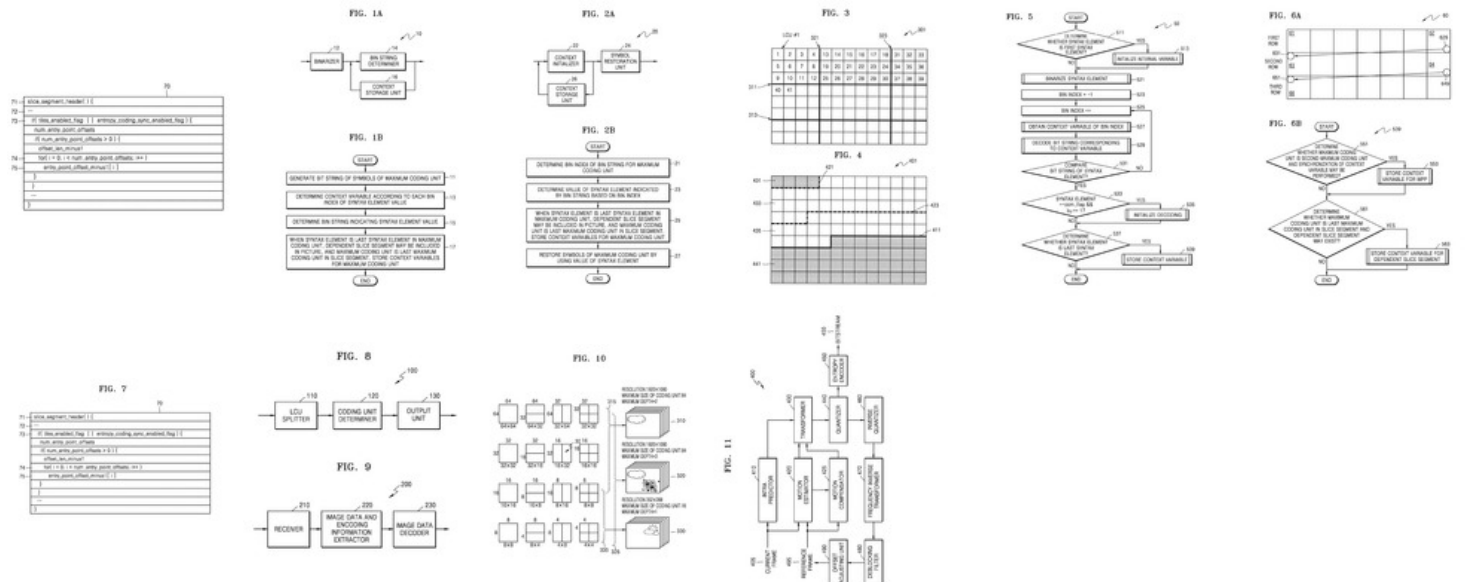
The invention relates to the technical field of copper alloy and discloses an environment-friendly high-melting-point durable copper alloy section bar for a transformer. The alloy section bar contains the following raw materials in percentage by weight (wt%): 2.4wt%-3.2wt% of Pb, 0.8wt%-1.2wt% of Sn, 1.0wt%-2.0wt% of Al, 1.2wt%-1.6wt% of Fe, 0.8wt%-1.6wt% of Mn, 5.5wt%-6.5wt% of Ni, 3.0wt%-5.0wt% of Si, 0.04wt%-0.06wt% of As, 3.5wt%-5.5wt% of Zn, 0.10wt%-0.30wt% of P, 0.4wt%-0.6wt% of Cr, 0.2wt%-0.6wt% of Ti and the balance of copper and inevitable impurities. According to the environment-friendly high-melting-point durable copper alloy section bar for the transformer and a manufacturing process of the copper alloy section bar, FeZn7 particles are generated through the compounding of Fe and Zn and are separated out during the solidification of liquid alloy so as to form a crystal nucleus, and grain tissues of alloy are thinned, so that the internal structure is relatively steady; and by adding Cr and Si, the melting point of the copper alloy is effectively increased, and a certain temperature can be isolated by virtue of an anti-rusting layer, so that a copper alloy body is not directly influenced by the high temperature, and the problems that the transformer is melted due to an over-high temperature and is damaged are reduced.

9. Method and apparatus for entropy-encoding capable of parallel processing, and method and apparatus for entropy-decoding capable of parallel processingWO20131091152013-01-21SAMSUNG ELECTRONICS*2013-07-252013-07-25

The present invention provides a method for parallel-processing entropy encoding and decoding techniques with a plurality of processors. According to the present invention, disclosed is a method for encoding comprising the steps of: sequentially entropy-encoding a first block column from blocks having a predetermined size as a result of dividing and encoding an image; determining initial entropy coding probability information of a first block in a second block column as entropy coding probability information that is renewed by a block in a fixed position in the first block column; sequentially entropy-encoding continuous blocks in the second block column on the basis of the initial entropy coding probability information; and initializing internal status information of an entropy-encoded bit stream of the first block column, after entropy-encoding is completed on the last block in the first block column.



A video decoding method comprising obtaining, from a bitstream, information about a maximum size of a coding unit, obtaining, from the bitstream, first information indicating whether a dependent slice segment is permitted to be included in a picture, determining at least one maximum coding unit included in a first slice segment, based on a maximum coding unit size, which is determined by using the information about the maximum size, obtaining, from the bitstream, second information indicating whether a current maximum coding unit is at an end of the first slice segment or not. The method includes storing a context variable of the first slice segment if the first information indicates that a dependent slice segment is permitted to be included in the picture and the second information indicates that the current maximum coding unit is at the end of the first slice segment, obtaining sixth information, from the bitstream, which indicates whether a second slice segment is a dependent slice segment or not; and decoding the second slice segment by using the stored context variable when the sixth information indicates that the second slice segment is a dependent slice segment; wherein the second slice segment is located next to the first slice segment.



Provided are a method and apparatus for **entropy-encoding/entropy-decoding video data**. The method of **entropy-encoding video data** includes binarizing coefficients of the frequency domain, which are generated by transforming a residual block of a current block into the frequency domain, using different binarization methods and performing binary arithmetic coding on the binarized coefficients. In this way, the coefficients are binarized adaptively according to whether the frequencies of the coefficients are high or low, thereby improving the compression efficiency of the video data.

