

(54) Title of the invention : Relating the use of matrices to encode and decode messages with population models, and control terrestrial traffic

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(57) Abstract :

[06] The matrices have great applicability in our daily lives, there are several areas that use these tables to help the studies. Among them is information technology, which uses them to aid mathematical calculations, image editors, and the keyboard itself where its configuration is performed by a system of matrices, among many others. In economics, matrices are used as a great tool in the interpretation of graphs that originate from tables. Many organizations make use of tables to help them with their financial situation. In civil engineering, for example, they are used to divide meters and distribute material in the construction of a support structure (slab). In mathematics itself it has several applications, especially in Linear Algebra and computer graphics. It can also be used, for example, in organizing data such as a championship table, calendar, in problem situations, lottery bets and even the computer screen which is formed by pixels generated by a matrix. Among many other examples, in our work we seek to relate the use of matrices to encode and decode messages, to show population models and to control terrestrial traffic. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4]

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