The conceptual design of the basic unit of administrational Design Work Cells building Unit

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Abstract:
Work cells are considered of the most significant management furniture elements, due to the fact of its containing several functional criteria that should be applied in the least possible area. The good design will increase the rate of the required functional performance. They are the dominant furniture element in any management institution. The design of the building unit of the work cell is greatly important as the design should introduce a vision that allows the malleable distribution within the same space. This characteristic became one of the most important criteria in the estimation of the functional performance of the management work cell. This is due to the changes that occurred on the interior design of management establishment which adopted the line of the connected open areas in its interior design as well as the diversity from limitedness to expansion. Due to the previously mentioned, the value of the work cell design increases in proportion to what it introduces of various arrangements within the space. Therefore, it becomes necessary for the furniture design to realize how to achieve this functional purpose through the design of building unit of the work cell. The building unit means, the design shape of the work surface in the cell as this shape bestows the design the growing feature & the variety of arrangement & distribution. The research main problem is actually the limited design solutions of the work cells building units in management furniture, especially those characterized by the multiple distribution within the interior spaces. The research aims at providing a design vision of the work cells building units in management furniture which enables the multiple distribution within the internal different spaces, there by attempting to solve the research problem. The research is significance relies in the applied vision introduced by the researcher in his design of the work cells building unit in management furniture. Regarding the previously mentioned, the research study Skelton is determined according to the following: The most important applied results achieved by the researcher depending on his design vision is that the building units of the work cells which fulfilled the aim of the research best were those the geometrical design of its building unit is characterized by the following: (1) They should have two equal & parallel geometrical lines determining the work surface in its horizontal projection. The sum of the two parallel lines length should be equal to the length of the external line of the work surface opposite to the seat, as in fig no(1&2) from the applied study since ( AB = CD & AB + CD = AD ). The researcher introduced according to this relation a design of a building unit of a work cell able grow & to be redistributed into 18 different forms of management work cells. (2) Some changes can be made on the building unit at the end of the formation as adding a storage units or changing the plastic line of the work surface to enhance its functional performance at the end of formation growth.

Keywords:
Design Vision, Work cells, Workstation, Management Furniture

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