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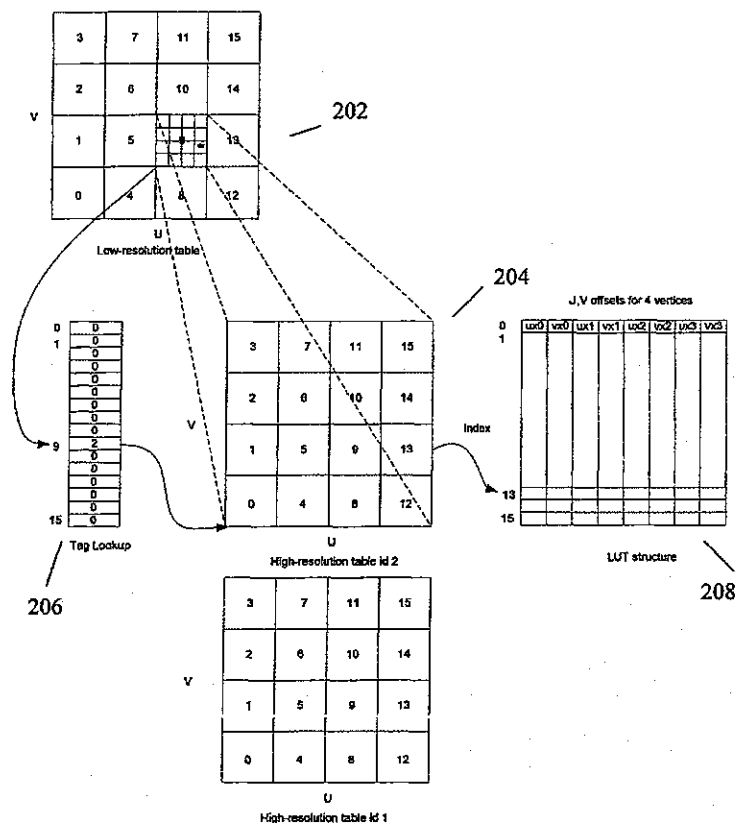
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(54) Title: APPARATUS AND METHOD FOR MULTI-RESOLUTION COLOR MAPPING FOR DISPLAY DEVICES



(57) Abstract: An apparatus and method for allowing color adjustments in display devices is disclosed. The apparatus comprises a multi-resolution structure (3) for providing color adjustments; and an interpolator (5) for interpolating at least one offset of the multi-resolution structure. An apparatus and method in accordance with the present invention uses a combination of color look-up tables (202, 204) with different levels of resolution, followed by interpolation to provide a display process which has high resolution but utilizes minimal memory. In so doing, memory is used for high-resolution areas only where needed. The multi-resolution structure is a very good approximation to the theoretical mapping table in the areas where it is needed. At the same time, since the high resolution areas are localized, a significant reduction in memory storage is possible.

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