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(54) Title: TEXTURE COMPOSITING APPARATUS AND METHOD		
(57) Abstract A texture compositing apparatus (figure 6) and method for combining multiple independent texture colors in a variety of ways in a single execution pass using a single texture compositing unit (TCU) (304) per texture. The TCU (304) receives a control signal, (216) a blend factor (320), a local data signal (C_{local}/A_{local}) (226C, 228C), and an output data signal (C_{in}/A_{in}) (218B, 220B) generated by another TCU, the local data signal and the output data signal represent a texture color in a RGBA format. Based upon the control signal (216), the TCU (304) can generate an output signal (218C, 220C) based on a variety of functions. The outputs that can be generated include but are not limited to: (1) zero; (2) one; (3) C_{in}; (4) C_{local}; (5) $C_{in} + C_{local}$; (6) $C_{in} - C_{local}$; (7) $C_{in} * C_{local}$; (8) $C_{in} * C_{local} + A_{local}$; (9) $C_{in} * A_{local} + C_{local}$; (10) $(C_{in} - C_{local}) * F_{blend} + C_{local}$; and (11) $(C_{in} - C_{local}) * (1 - F_{blend}) + C_{local}$. Another feature of the invention is that multiple TCUs can be serially coupled to enable addition texture colors to be combined in a single execution path.		