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United States Patent [19]

Wang

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[54]		OL OF	APPARATUS FOR ADAPTIVE A VEHICLE POWER				
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			318/280–300; 49/139–140				
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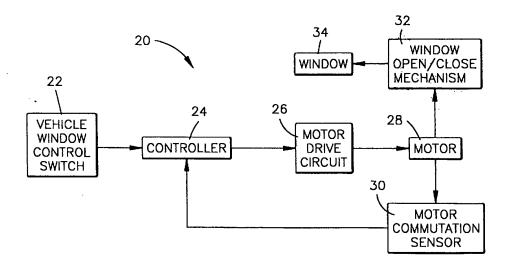
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Tummino & Szabo

57] ABSTRACT

An adaptive vehicle power window control apparatus (20) includes an electric motor (28) for moving a member (34) between a first position and a second position. The space between the first position and the second position is divided into a plurality of trap zones and each zone has an associated sensitivity value. A controller 24 determines (40) a value functionally related to the present motor speed and determines (44) a value functionally related to a reference motor speed. The sensitivity value is adjusted as a function of the two determined values. A window zone determining function (62) determines which of the plurality zones the member (34) is located. The value functionally related to present motor speed is adjusted (52) as a function of the sensitivity value for the zone that the member is located. A comparing function (48) compares the adjusted value with the value functionally related to reference motor speed. The motor direction and movement is controlled as a function of the comparison. Zone locations are adjustable with a calibration procedure.

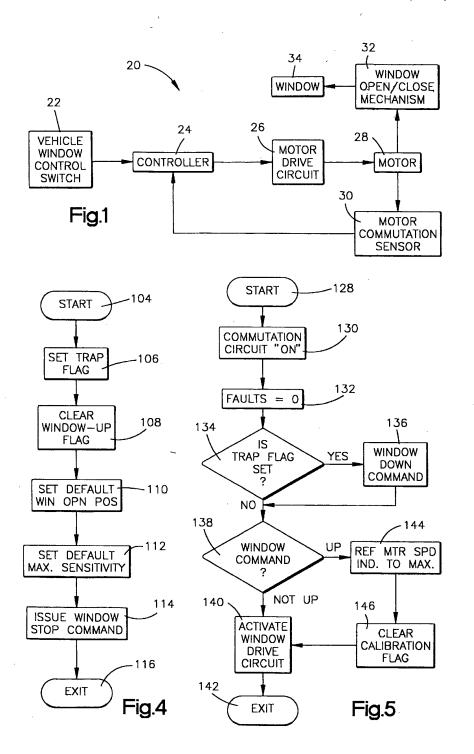
22 Claims, 7 Drawing Sheets



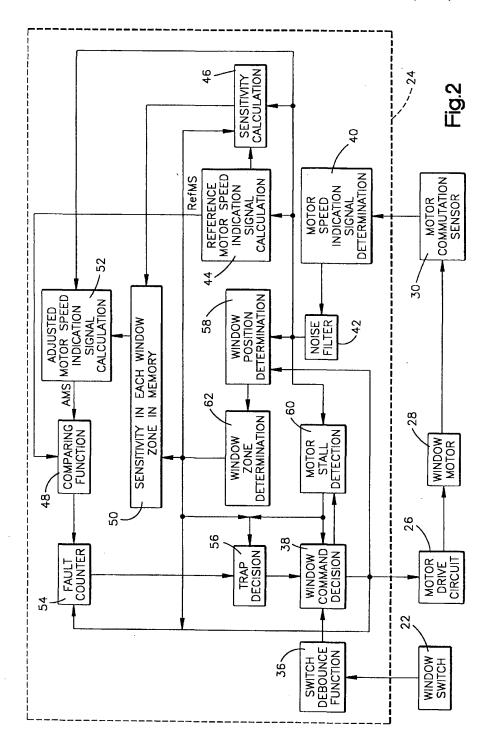
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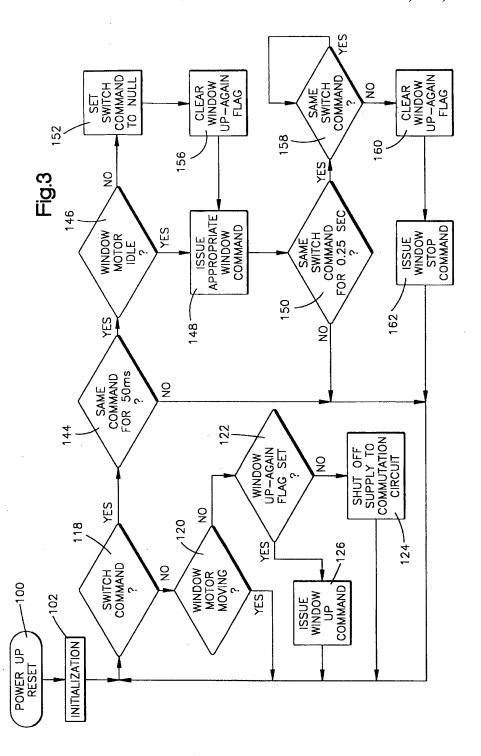


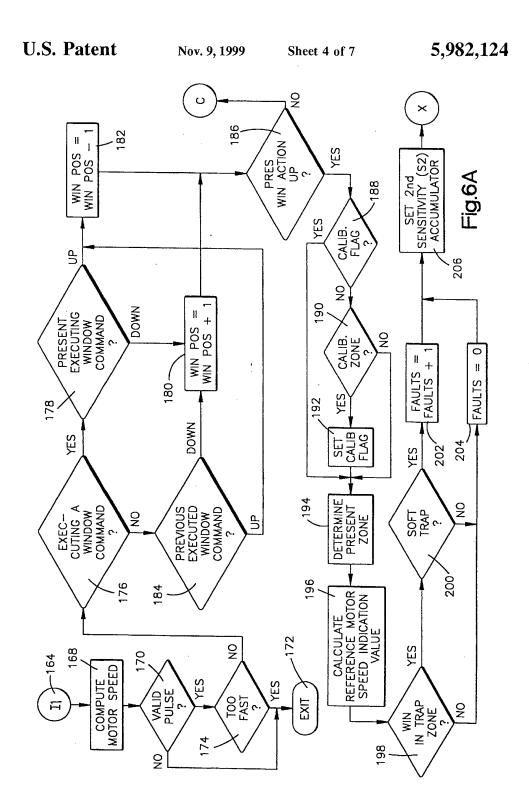




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