CLAIMS OF U.S. PATENT NOS. 6,690,387 B2 AND 7,184,064 B2

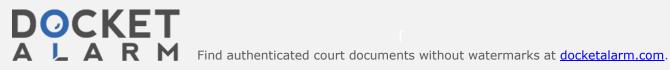| '387 Patent Claim Language	'064 Patent Claim Language
1[pre]. An improved touch-screen image scrolling system, comprising:	1[pre]. An improved touch-screen image scrolling system, comprising:
1[a] an electronic image display screen;	1[a] an electronic image display screen;
1[b] a microprocessor coupled to said display screen to display information thereon and to receive interactive signals therefrom;	1[b] a microprocessor coupled to said display screen to display information thereon and to receive interactive signals therefrom;
1[c] timer means associated with said microprocessor to provide timing capacity therefor;	1[c] timer means associated with said microprocessor to provide timing capacity therefor;
1[d] a source of scroll format data capable of display on said display screen;	1[d] a source of scroll format data capable of display on said display screen;
1[e] a keyboard coupled to said microprocessor to provide input control signals thereto;	
1[f] finger touch program instructions associated with said microprocessor for sensing the speed, direction and time duration of a finger touch contact with said display screen;	1[e] finger touch program instructions associated with said microprocessor for sensing the speed, direction and time duration of a finger touch contact with said display screen:
1[g] scrolling motion program instructions associated with said microprocessor responsive to said duration of said finger touch contact such that, when said duration exceeds a first given preset minimum time and is accompanied by motion along the surface of said screen followed by separation of said finger touch from said	1[f] scrolling motion program instructions associated with said microprocessor responsive to said duration of said finger touch contact such that, when said duration exceeds a first given preset minimum time and is accompanied by motion along the surface of said screen followed by separation of said finger touch from said

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screen, a scroll format display on said screen is caused to begin to scroll in said sensed direction and at said sensed initial speed;	screen, a scroll format display on said screen is caused to begin to scroll in said sensed direction and at said sensed initial speed;
1[h] time decay program instructions associated with said microprocessor for reducing the rate of scrolling displacement on said display screen at a given rate until motion is terminated;	1[g] time decay program instructions associated with said microprocessor for reducing the rate of scrolling displacement on said display screen at a given rate until motion is terminated;
1[i] stopping motion program instructions associated with said microprocessor for terminating scrolling displacement of the image on said screen upon first occurrence of any signal in the group of signals comprising: (a) a substantially stationary finger touch on the screen enduring for a period longer than a preset minimum time, and (b) an end-of-scroll signal received from said scroll format data source.	1[h] stopping motion program instructions associated with said microprocessor for terminating scrolling displacement of the image on said screen upon first occurrence of any signal in the group of signals comprising: (a) a substantially stationary finger touch on the screen enduring for a period longer than a preset minimum time, and (b) an end-of-scroll signal received from said scroll format data source.
2. The improved touch-screen image scrolling system of claim 1, wherein said scrolling motion program instructions further comprise instructions to move said display in correspondence with movement of the finger touch, in response to movement following a touch having a stationary duration greater than said first preset given minimum time and less than a second given preset minimum time.	2. The improved touch-screen image scrolling system of claim 1, wherein said scrolling motion program instructions further comprise instructions to move said display in correspondence with movement of the finger touch, in response to movement following a touch having a stationary duration greater than said first preset given minimum time and less than a second given preset minimum time.
3. The improved touch-screen image scrolling system of claim 1, wherein	3. The improved touch-screen image scrolling system of claim 1, wherein

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said scrolling motion program instructions further comprise instructions to move a touch-selected item relative to the stationary display in correspondence with movement of said finger touch, in response to motion following a touch having a stationary duration greater than said second given preset minimum time.	said scrolling motion program instructions further comprise instructions to move a touch-selected item relative to the stationary display in correspondence with movement of said finger touch, in response to motion following a touch having a stationary duration greater than said second given preset minimum time.
4. The improved touch-screen image scrolling system of claim 1, wherein said group of signals for terminating scrolling, displacement of the image on said display screen further comprises (a) a signal indicating that the rate of scrolling displacement on said screen has decayed to a value below a predetermined given value.	4. The improved touch-screen image scrolling system of claim 1, wherein said group of signals for terminating scrolling displacement of the image on said display screen further comprises (a) a signal indicating that the rate of scrolling displacement on said screen has decayed to a value below a predetermined given value.
5. The improved touch-screen image scrolling system of claim 1, wherein said microprocessor, and said timer means together comprise a processing unit of a conventional computer.	5. The improved touch-screen image scrolling system of claim 1, wherein said microprocessor, and said timer means together comprise a processing unit of a conventional computer.
6. The improved touch-screen image scrolling system of claim 5, wherein said source of scroll format data capable of display on said display screen comprises part of the memory of said conventional computer.	6. The improved touch-screen image scrolling system of claim 5, wherein said source of scroll format data capable of display on said display screen comprises part of the memory of said conventional computer.
7[pre]. An improved touch-screen image scrolling system, comprising:	7[pre]. An improved touch-screen image scrolling system, comprising:
7[a] an electronic image display screen;	7[a] an electronic image display screen;
7[b] a computer apparatus coupled to	7[b] a computer apparatus coupled to

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said display screen to display information thereon and to receive interactive signals therefrom;	said display screen to display information thereon and to receive interactive signals therefrom;
7[c] timer means within said computer apparatus to provide timing capacity therefor;	7[c] timer means within said computer apparatus to provide timing capacity therefor;
7[d] said computer apparatus having capacity to store scroll format data capable of display on said display screen;	7[d] said computer apparatus having capacity to store scroll format data capable of display on said display screen;
7[e] a keyboard coupled to said computer apparatus to provide input control signals thereto;	
7[f] finger touch program instructions associated with said computer apparatus for sensing the speed, direction and time duration of a finger touch contact with said display screen;	7[e] finger touch program instructions associated with said computer apparatus for sensing the speed, direction and time duration of a finger touch contact with said display screen;
7[g] scrolling motion program instructions associated with said computer apparatus responsive to said duration of said finger touch contact such that, when said duration exceeds a preset minimum time and is accompanied by motion along the surface of said screen, a scroll format display on said screen is caused to begin to scroll in the sensed direction and at the sensed initial speed;	7[f] scrolling motion program instructions associated with said computer apparatus responsive to said duration of said finger touch contact such that, when said duration exceeds a preset minimum time and is accompanied by motion along the surface of said screen, a scroll format display on said screen is caused to begin to scroll in the sensed direction and at the sensed initial speed;
7[h] time decay program instructions associated with said computer apparatus for reducing the rate of scrolling displacement on said display screen at a	7[g] time decay program instructions associated with said computer apparatus for reducing the rate of scrolling displacement on said display screen at a

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given rate until motion is terminated;	given rate until motion is terminated;
7[i] stopping motion program instructions associated with said computer apparatus for terminating scrolling displacement of the image on said screen upon first occurrence of any signal in the group of signals comprising: (a) a substantially stationary finger touch on the screen enduring for a period longer than a preset minimum time, and (b) an end-of-scroll signal received from said scroll format data source.	7[h] stopping motion program instructions associated with said computer apparatus for terminating scrolling displacement of the image on said screen upon first occurrence of any signal in the group of signals comprising: (a) a substantially stationary finger touch on the screen enduring for a period longer than a preset minimum time, and (b) an end-of-scroll signal received from said scroll format data source.
8[pre]. An improved touch-screen image scrolling system, comprising:	8[pre]. An improved touch-screen image scrolling system, comprising:
8[a] an electronic image display screen;	8[a] an electronic image display screen;
8[b] a microprocessor coupled to said display screen to display information thereon and to receive interactive signals therefrom;	8[b] a microprocessor coupled to said display screen to display information thereon and to receive interactive signals therefrom;
8[c] timer means associated with said microprocessor to provide timing capacity therefor;	8[c] timer means associated with said microprocessor to provide timing capacity therefor;
8[d] a source of scroll format data capable of display on said display screen;	8[d] a source of scroll format data capable of display on said display screen;
8[e] a keyboard coupled to said microprocessor to provide input control signals thereto;	
8[f] finger touch program instructions associated with said microprocessor for	8[e] finger touch program instructions associated with said microprocessor for

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