Element 1[pre]: A touch sensor device comprising:	Element 12[pre]: A method comprising:	Element 13[pre]: A single integrated circuit comprising: Element 13[a]: a memory	Element 14[pre]: A computer comprising: Element 14[a]: a memory
		element;	element;
Element 1[a]: a sensor having a sensitive area extending in at least one-dimension and arranged to output sense signals responsive to proximity of an object to the sensitive area			
Element 1[b]: a processor operable to execute position-processing logic stored in one or more tangible media, the position-processing logic, when executed by the processor, configured to: calculate positions of interactions with the sensitive area from an analysis of the sense signals; and output a times series of data indicative of the interaction positions on the sensor, the interaction	Element 12[a]: receiving a times series of data indicative of the interaction positions on a sensor, the interaction positions corresponding to touches;	Element 13[b]: a processor operable to execute logic stored in one or more tangible media, the logic, when executed by the processor, operable to: receive a times series of data indicative of the interaction positions on a sensor, the interaction positions corresponding to touches;	Element 14[b]: a processor operable to execute logic stored in one or more tangible media, the logic, when executed by the processor, operable to: receive a times series of data indicative of the interaction positions on a sensor, the interaction positions corresponding to touches;

positions corresponding to			
Element 1[c]: a processor operable to execute gesture-processing logic stored in one or more tangible media, the gesture-processing logic, when executed by the processor, configured to analyze the time series of data to distinguish one or more gesture inputs from the time series of data, the gesture-processing logic being coded with gesture-recognition code comprising a plurality of state-machine modules,	Element 12[b]: analyzing the time series of data to distinguish one or more gesture inputs from the time series of data using gesture-recognition code comprising a plurality of state-machine modules,	Element 13[c]: analyze the time series of data to distinguish one or more gesture inputs from the time series of data, the gesture-processing logic being coded with gesture-recognition code comprising a plurality of state-machine modules,	Element 14[c]: analyze the time series of data to distinguish one or more gesture inputs from the time series of data using gesture-recognition code comprising a plurality of state-machine modules,
Element 1[d]: the plurality of state-machine modules comprising: a first one-touch state-machine module, the first one-touch state-machine module being operable to recognize at least a first one-touch gesture and generate a first	Element 12[c]: the plurality of state-machine modules comprising: a first one-touch state-machine module, the first one-touch state-machine module being operable to recognize at least a first one-touch gesture and generate a first output	Element 13[d]: the plurality of state-machine modules comprising: a first one-touch state-machine module, the first one-touch state-machine module being operable to recognize at least a first one-touch gesture and generate a first output	Element 14[d]: the plurality of state-machine modules comprising: a first one-touch state-machine module, the first one-touch state-machine module being operable to recognize at least a first one-touch gesture and generate a first output based on the first one-touch gesture;

output based on the first	based on the first one-	based on the first one-	
one-touch gesture;	touch gesture;	touch gesture;	
Element 1[e]: a second one-	Element 12[d]: a second	Element 13[e]: a second	Element 14[e]: a second one-
touch state-machine	one-touch state-machine	one-touch state-machine	touch state-machine module,
module, the second one-	module, the second one-	module, the second one-	the second one-touch state-
 			
touch state-machine module	touch state-machine	touch state-machine	machine module being
being operable to recognize	module being operable to	module being operable to	operable to recognize at least
at least a second one-touch	recognize at least a second	recognize at least a second	a second one-touch gesture
gesture and generate a	one-touch gesture and	one-touch gesture and	and generate a second output
second output based on the	generate a second output	generate a second output	based on the second one-
second one-touch gesture;	based on the second one-	based on the second one-	touch gesture; and
and	touch gesture; and	touch gesture; and	_
Element 1[f] a multi-touch	Element 12[e]: a multi-	Element 13[f]: a multi-	Element 14[f]: a multi-touch
state-machine module	touch state-machine	touch state-machine	state-machine module
operable to: receive, directly	module operable to:	module operable to:	operable to: receive, directly
from the first one-touch	receive, directly from the	receive, directly from the	from the first one-touch
state-machine module, the	first one-touch state-	first one-touch state-	state-machine module, the
first output; receive, directly	machine module, the first	machine module, the first	first output; receive, directly
from the second one-touch	output; receive, directly	output; receive, directly	from the second one-touch
state-machine module, the	from the second one-touch	from the second one-touch	state-machine module, the
second output; and	state-machine module, the	state-machine module, the	second output; and
recognize, based on at least	second output; and	second output; and	recognize, based on at least
the first and second outputs,	recognize, based on at	recognize, based on at	the first and second outputs,
at least one multi-touch	least the first and second	least the first and second	at least one multi-touch
gesture,	outputs, at least one multi-	outputs, at least one multi-	gesture,
0	touch gesture,	touch gesture,	
Element 1[g]: the first one-	Element 12[f]: the first	Element 13[g]: the first	Element 14[g]: the first one-
touch state-machine	one-touch state-machine	one-touch state-machine	touch state-machine module,

			,
module, the second one-	module, the second one-	module, the second one-	the second one-touch state-
touch state-machine	touch state-machine	touch state-machine	machine module, and the
module, and the multi-touch	module, and the multi-	module, and the multi-	multi-touch state-machine
state-machine module being	touch state-machine	touch state-machine	module being distinct state-
distinct state-machine	module being distinct	module being distinct	machine modules; and
modules; and	state-machine modules;	state-machine modules;	
	and	and	
Element 1[h]: output the	Element 12[g]: outputting	Element 13[h]: output the	Element 14[h]: output the
recognized multi-touch	the recognized multi-touch	recognized multi-touch	recognized multi-touch
gesture.	gesture.	gesture.	gesture.
Claim 2: The device of			
claim 1, each of the			
plurality of state-machine			
modules including an idle-			
state module and a plurality			
of gesture-interpretation-			
state modules, the idle-state			
module being entered at the			
start of operation and being			
able to be returned to from			
at least some of the gesture-			
interpretation-state modules.			
Claim 3: The device of			
claim 2, each of the			
plurality of gesture-			
interpretation-state modules			
for each of the one-touch			

	 <u></u>	
state-machine modules		
including a touch-state		
module and the idle-state		
module passing, responsive		
to a touch, control to the		
touch-state module.		
Claim 4: The device of		
claim 3, the plurality of		
gesture-interpretation-state		
modules for each of the first		
and second one-touch state-		
machine modules including		
a press-state module to		
which control can pass from		
a touch-state module if a		
touch of a duration longer		
than a threshold duration is		
sensed in the touch-state		
module.		
Claim 5: The device of		
claim 4, the press-state		
being a super-state		
comprising multiple sub-		
states to distinguish		
between different durations		
of press.		
Claim 6: The device of		
claim 2, the plurality of		

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