

## SEARCH HISTORY

<b>Application Number</b>	PCT/US 15/31248
<b>Search Conducted By</b>	FSM
<b>Search Approved By</b>	FSM

<b>CPC/IPC Classifications Searched</b>	IPC(8) - G06F3/044 (2015.01) CPC - G06F3/044, G06F3/03, G06F1/3231, G06F2203/04108, G06F3/017
<b>Date Conducted</b>	13 October 2015 (13.10.2015)

<b>Documentation Searched</b>	CPC - G06F3/044, G06F3/03, G06F1/3231, G06F3/048, G06F2203/04108, G06F3/017, Y02B60/1289 IPC(8) - G06F3/044 (2015.01) USPC - 345/174 (keyword delimited)
<b>Search Terms Used</b>	capacitive sensor gesture hand body proximity position non-contact pad plate electrode rotate hinge swing reposition angle aim tilt direction
<b>Date Conducted</b>	13 October 2015 (13.10.2015)

<b>Electronic Database Searched</b>	PatBase
<b>Files Searched</b>	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO  Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
<b>Date Conducted</b>	13 October 2015 (13.10.2015)

## Search Logic:

Search 1:	(non w2 contact) and (capaci* w4 sensor*) (Results 3987)
Search 2:	1 and planar (Results 785)
Search 3:	(non-contact w2 sensor*) and (non-contact w2 capacit*) (Results 100000)
Search 4:	((non and contact) w2 sensor*) and ((non and contact) w2 capacit*) (Results 65)

## SEARCH HISTORY

Search 5:	((sens* or capacit*) w4 (plate or pad*)) and capaci* (Results 536)
Search 6:	((sens* or capacit*) w4 (plate or pad*)) and capaci* and (proximity or position) (Results 375)
Search 7:	6 and (hand w4 (proximity or position)) (Results 9)
Search 8:	6 and (human w4 (proximity or position)) (Results 2)
Search 9:	6 and (body w4 (proximity or position)) (Results 14)
Search 10:	6 and (rotat* w4 (plat* or pad*)) (Results 35)
Search 11:	6 and (swing* w4 (plat* or pad*)) (Results 2)
Search 12:	6 and (hing* w4 (plat* or pad*)) (Results 5)
Search 13:	1 and (rotat* w4 (plat* or pad*)) (Results 222)
Search 14:	1 and (hing* w4 (plat* or pad*)) (Results 70)
Search 15:	(capacit* w4 sensor*) and (rotat* w4 plane) and (rotat* w4 out) (Results 112)
Search 16:	((three w2 dimen*) or ("3" w2 dimen*) or 3d) and (capaci* w4 sensor*) (Results 12175)
Search 17:	16 and ((reposition* or angl*) w4 sensor) (Results 729)
Search 18:	17 and TAC=(capaci* w4 sensor*) (Results 156)
Search 19:	(gestur* or (hand w2 positi*)) and TAC=(capaci* w4 sensor*) (Results 1173)
Search 20:	19 and (tilt w4 sensor*) (Results 28)
Search 21:	19 and (aim w4 sensor*) (Results 1)
Search 22:	19 and (aim* w4 sensor*) (Results 8)
Search 23:	19 and (direct* w4 sensor*) (Results 313)
Search 24:	19 and (rotat* w4 sensor*) (Results 70)
Search 25:	19 and (direct* w4 capacit*) (Results 126)
Search 26:	23 and 25 (Results 76)
Search 27:	24 and (rotat* w4 capacit*) (Results 11)
Search 28:	IC=(G06F3/044) (Results 15746)
Search 29:	CPC=(G06F3/044, G06F3/03, G06F1/3231, G06F3/048, G06F2203/04108, G06F3/017, Y02B60/1289) (Results 17963)
Search 30:	UC=(345/174) (Results 4810)
Search 31:	28 or 29 or 30 (Results 28622)
Search 32:	31 and (non w2 contact) and (capaci* w4 sensor*) (Results 381)
Search 33:	31 and (gestur*) and (capaci* w4 sensor*) (Results 1520)
Search 34:	32 or 33 (Results 1745)
Search 35:	34 and hand (Results 1211)
Search 36:	35 and (proximity) (Results 818)

Electronic Database Searched

Google

## SEARCH HISTORY

<b>Files Searched</b>	Google Patents
<b>Date Conducted</b>	13 October 2015 (13.10.2015)
<b>Search Logic:</b>	
<p>proximity sensor hinged capacitive plate 12700</p> <p>hinged plate capacitive sensor 10800</p> <p>three dimensional capacitive sensor 92000</p> <p>three dimensional capacitive sensor hand position rotate out of plane 37800</p> <p>non-contact body position capacitive sensor hinged capacitive plate 9320</p> <p>non-contact capacitive sensor hinged capacitive plate 13900</p> <p>three dimensional capacitive sensor hand position 117000</p> <p>repositionable capacitive sensor 452</p> <p>capacitive gesture sensor reposition 27600</p>	

<b>Electronic Database Searched</b>	FreePatentsOnline
<b>Files Searched</b>	USPat, USPgPub, EPO, JPO, WIPO, Non-patent literature; stemming on
<b>Date Conducted</b>	13 October 2015 (13.10.2015)
<b>Search Logic:</b>	
<p>"hinged electrode"~4 and "capacitive sensor"~4 6</p> <p>"rotate plate"~4 and "capacitive sensor"~4 314</p> <p>"tilt plate"~4 and "capacitive sensor"~4 118</p> <p>6323846 49</p> <p>"rotate plate out plane"~4 2</p> <p>"capacitive plate"~4 and "rotate out of plane"~4 7</p> <p>"direction plate"~4 and "capacitive sensor"~4 850</p>	

**SEARCH HISTORY**

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<b>Electronic Database Searched</b>	Google
<b>Files Searched</b>	web
<b>Date Conducted</b>	13 October 2015 (13.10.2015)
<b>Search Logic:</b>	
proximity sensor hinged capacitive plate 637000	
non-contact capacitive sensor hinged capacitive plate 355000	
non-contact body position capacitive sensor hinged capacitive plate 131000	
hinged plate capacitive sensor 63200	
three dimensional capacitive sensor hand position rotate out of plane 290000	
three dimensional capacitive sensor hand position 703000	
repositionable capacitive sensor 3980000	
capacitive gesture sensor reposition 564000	