

Title (en)  
PORTABLE WORK STATION AND DATA COLLECTION TERMINAL INCLUDING SWITCHABLE MULTI-PURPOSE TOUCH SCREEN DISPLAY

Title (de)  
TRAGBARER ARBEITSPLATZ UND DATENSAMMLUNGSTERMINAL MIT UMSCHALTBARER MEHRZWECKBERUEHRUNGSANZEIGE

Title (fr)  
POSTE DE TRAVAIL ET TERMINAL DE COLLECTE DE DONNEES PORTABLE A AFFICHAGE TACTILE MULTIFONCTION COMMUTABLE

Publication  
**EP 0686279 A4 19970326 (EN)**

Application  
**EP 94910184 A 19940228**

Priority  
• US 9402091 W 19940228  
• US 2384093 A 19930226  
• US 4887393 A 19930416

Abstract (en)  
[origin: WO9419736A1] A portable data collection terminal (10) has an elongate housing (12) with a hand grip conforming rear surface. A front surface (14) features a numerical keyboard (16) adjacent a lower end of the housing and an LCD screen (15) adjacent the keyboard toward an upper end of the housing. The display screen is of elongate rectangular shape, its length extending longitudinally of the housing of the data terminal. The active area of the display screen is covered by a touch sensitive overlay screen which is configured in one mode of operation of the data terminal into an alphabetical keyboard. The orientation of the display is switchable between orientations in which the line direction of the displayed data extends across or longitudinally of the data terminal. The keys (46), of the numerical keyboard (16) are identified by indicia (42) disposed on a template (13). The orientation of the template may be sensed to switch the orientation of the displayed data and touch sensitive key identifiers to correspond to the orientation of the indicia on the template. As a further embodiment an electromagnetic activation by a pen may be used to enter data into a data terminal. Power saving shutdown extends the battery life of the data terminal. A shutdown mode permits resumption of operations by depression of a key.

IPC 1-7  
**G06F 1/32**; **G06F 3/00**

IPC 8 full level  
**G06F 1/16** (2006.01); **G06F 1/28** (2006.01); **G06F 1/32** (2006.01); **G06F 3/023** (2006.01); **G06F 3/033** (2006.01); **G06F 9/445** (2006.01); **G06F 11/14** (2006.01); **G06F 15/02** (2006.01); **G06K 7/10** (2006.01); **H01Q 1/22** (2006.01)

CPC (source: EP)  
**G06F 1/1626** (2013.01); **G06F 1/1632** (2013.01); **G06F 1/1656** (2013.01); **G06F 1/1662** (2013.01); **G06F 1/1684** (2013.01); **G06F 1/28** (2013.01); **G06F 1/3203** (2013.01); **G06F 1/3228** (2013.01); **G06F 1/3293** (2013.01); **G06F 3/0231** (2013.01); **G06F 9/4418** (2013.01); **G06F 15/0225** (2013.01); **G06K 7/10881** (2013.01); **G06F 2200/1614** (2013.01); **G06F 2200/1632** (2013.01); **G06F 2200/1633** (2013.01); **Y02D 10/00** (2017.12)

Citation (search report)  
• [E] US 5519871 A 19960521 - SHIMODA YUJI [JP]  
• [Y] US 4733265 A 19880322 - HARAGUCHI SHOSUKE [JP], et al  
• [Y] US 4327410 A 19820427 - PATEL RAMESHCHANDRA S, et al  
• [A] EP 0365286 A2 19900425 - SHARP KK [JP]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 195 (P - 379) 13 August 1985 (1985-08-13)  
• See references of WO 9419736A1

Designated contracting state (EPC)  
BE DE DK ES FR GB IT NL SE

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DOCDB simple family (application)  
**US 9402091 W 19940228**; AU 6272794 A 19940228; CA 2157039 A 19940228; EP 94910184 A 19940228