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**Vuolteenaho et al.**

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(54) **DISPLAY AND KEY ARRAY FOR A HANDSET**

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(52) **U.S. Cl.** ..... **D14/248; D14/249**

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D. 361,328	8/1995	White	.....	D14/138
D. 361,762	8/1995	Berry	.....	D14/138
D. 362,249	9/1995	Burstedt et al.	.....	D14/138
D. 364,620	11/1995	Prior et al.	.....	D14/147
D. 374,006	9/1996	Tattari	.....	D14/138
D. 374,007	9/1996	Tattari	.....	D14/138
D. 384,950	10/1997	Park	.....	D14/138
D. 385,554	10/1997	Nuovo et al.	.....	D14/138
D. 385,876	11/1997	Park	.....	D14/138
D. 385,887	11/1997	Park	.....	D14/250
D. 386,188	11/1997	Park	.....	D14/250
D. 388,784 *	1/1998	Phillips et al.	.....	D14/138
D. 390,555	2/1998	Finke-Anlauff	.....	D14/138
D. 392,961	3/1998	Konttinen	.....	D14/114.1
D. 392,962	3/1998	Konttinen	.....	D14/114.1
D. 392,967	3/1998	Mason	.....	D14/138
D. 392,968	3/1998	Johansson	.....	D14/144
D. 393,263	4/1998	Johansson	.....	D14/240
D. 395,049	6/1998	Mason	.....	D14/247
D. 395,316	6/1998	Mason	.....	D14/250
D. 395,431	6/1998	Harris et al.	.....	D14/138
D. 396,230 *	7/1998	Phillips et al.	.....	D14/138

(List continued on next page.)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D. 289,896	5/1987	Martensson et al.	.....	D14/53
D. 299,719	2/1989	Martensson et al.	.....	D14/138
D. 302,423	7/1989	Martensson et al.	.....	D14/138
D. 319,052	8/1991	Major	.....	D14/138
D. 320,984	10/1991	Tattari	.....	D14/138
D. 321,183	10/1991	Powell et al.	.....	D14/138
D. 325,576	4/1992	Pitkonen	.....	D14/138
D. 325,577	4/1992	Karlin	.....	D14/138
D. 334,926	4/1993	Hunt et al.	.....	D14/138
D. 339,338	9/1993	Tattari et al.	.....	D14/138
D. 341,138	11/1993	Cummings	.....	D14/138
D. 345,734	4/1994	Seymour et al.	.....	D14/138
D. 348,667	7/1994	Oksman et al.	.....	D14/148
D. 349,112	7/1994	Tattari	.....	D14/138
D. 349,898	8/1994	Tattari et al.	.....	D14/148
D. 353,807	12/1994	White	.....	D14/138
D. 353,809 *	12/1994	Nuovo et al.	.....	D14/138
D. 354,284	1/1995	White	.....	D14/138
D. 356,561	3/1995	Berry	.....	D14/138
D. 356,562	3/1995	Nuovo	.....	D14/138
D. 356,563	3/1995	Berry	.....	D14/138

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(57) **CLAIM**

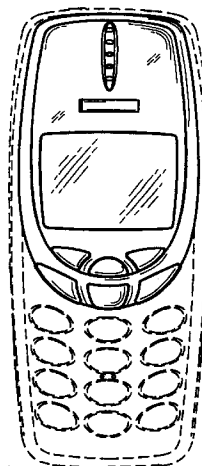
The ornamental design for a “display and key array for a handset”, as shown and described.

**DESCRIPTION**

FIG. 1 is a bottom plan view of a display and key array for a handset showing our new design;  
FIG. 2 is a right side view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a top plan view thereof; and,  
FIG. 6 is a front, bottom and right side perspective view thereof.

The dotted lines showing the outline of a telephone handset is for illustration purposes only and forms no part of the claimed invention.

**1 Claim, 2 Drawing Sheets**



## U.S. PATENT DOCUMENTS

D. 396,713	8/1998	Nuovo et al.	D14/138	D. 421,020	2/2000	Curtis	D14/247
D. 396,714	8/1998	Nuovo et al.	D14/138	D. 421,021	2/2000	Curtis et al.	D14/247
D. 398,930	9/1998	Nuovo et al.	D14/250	D. 421,022 *	2/2000	Curtis	D14/248
D. 398,931	9/1998	Nuovo et al.	D14/250	D. 421,023	2/2000	Curtis	D14/248
D. 400,203	10/1998	Kolinen	D14/138	D. 421,442	3/2000	Curtis et al.	D14/248
D. 402,653	12/1998	Nuovo et al.	D14/138	D. 421,611	3/2000	Nuovo	D14/248
D. 402,664 *	12/1998	Phillip et al.	D14/247	D. 421,985	3/2000	Collins	D14/138
D. 405,445	2/1999	Phillips et al.	D14/138	D. 421,992	3/2000	Phillips et al.	D14/247
D. 405,783	2/1999	Nuovo et al.	D14/138	D. 422,597 *	4/2000	Finkbeiner	D14/248
D. 405,784	2/1999	Phillips et al.	D14/138	D. 423,015	4/2000	Curtis et al.	D14/248
D. 405,785	2/1999	Vuolteenaho	D14/138	D. 423,515	4/2000	Phillips et al.	D14/247
D. 405,795	2/1999	Nuovo et al.	D14/218	D. 423,516	4/2000	Frye et al.	D14/248
D. 406,137	2/1999	Kolinen	D14/138	D. 424,571 *	5/2000	Finkbeiner	D14/247
D. 406,583	3/1999	Phillips et al.	D14/138	D. 425,057 *	5/2000	Finkbeiner	D14/138
D. 406,585	3/1999	Vuolteenaho et al.	D14/138	D. 425,073	5/2000	Finkbeiner	D14/248
D. 407,398	3/1999	Nuovo et al.	D14/138	D. 425,074 *	5/2000	Frye et al.	D14/248
D. 407,399	3/1999	Frye et al.	D14/138	D. 425,904	5/2000	Frye et al.	D14/247
D. 407,400	3/1999	Tattari	D14/138	D. 426,829	6/2000	Curtis	D14/248
D. 408,031	4/1999	Tattari et al.	D14/138	D. 426,830	6/2000	Curtis	D14/248
D. 408,813 *	4/1999	Prior	D14/138	D. 427,171	6/2000	Frye et al.	D14/138
D. 408,824	4/1999	Johansson et al.	D14/247	D. 428,001	7/2000	Curtis	D14/248
D. 409,204	5/1999	Vuolteenaho	D14/247	D. 428,401 *	7/2000	Curtis	D14/138
D. 409,598	5/1999	Tattari	D14/138	D. 428,878	8/2000	Finkbeiner	D14/247
D. 409,599 *	5/1999	Tattari	D14/138	D. 428,879	8/2000	Frye et al.	D14/247
D. 409,999	5/1999	Nuovo et al.	D14/138	D. 429,239	8/2000	Frye et al.	D14/247
D. 410,000	5/1999	Nuovo	D14/138	D. 429,240	8/2000	Curtis	D14/247
D. 411,205	6/1999	Frye et al.	D14/250	D. 429,241	8/2000	Collins	D14/248
D. 412,168	7/1999	Phillips et al.	D14/138	D. 429,491	8/2000	Finkbeiner	D14/248
D. 412,704 *	8/1999	Vuolteenaho et al.	D14/138	D. 430,151	8/2000	Frye et al.	D14/247
D. 412,710	8/1999	Nuovo	D14/250	D. 432,529	10/2000	Kolinen	D14/247
D. 413,896	9/1999	Frye et al.	D14/247	D. 433,002	11/2000	Kolinen	D14/138
D. 414,189	9/1999	Phillips et al.	D14/247	D. 434,018 *	11/2000	Nakahara et al.	D14/138
D. 415,149	10/1999	Vuolteenaho et al.	D14/138	D. 434,410	11/2000	Frye et al.	D14/248
D. 415,489 *	10/1999	Ke	D14/138	D. 434,744	12/2000	Lai	D14/138
D. 415,498	10/1999	Kolinen	D14/248	D. 434,754	12/2000	Banryu	D14/248
D. 415,770 *	10/1999	Nuovo	D14/248	D. 434,755	12/2000	Banryu	D14/248
D. 416,024	11/1999	Johansson et al.	D14/247	D. 436,102	1/2001	Wu	D14/248
D. 416,255	11/1999	Johansson et al.	D14/144	D. 436,590	1/2001	Finkbeiner	D14/247
D. 416,563	11/1999	Kolinen	D14/248	D. 436,938 *	1/2001	Won	D14/138
D. 416,913	11/1999	Kolinen	D14/250	D. 436,949	1/2001	Frye et al.	D14/248
D. 417,454	12/1999	Vuolteenaho	D14/247	D. 439,230	3/2001	Braxton et al.	D14/138
D. 418,145	12/1999	Arbisi	D14/248	D. 440,561	4/2001	Kolinen	D14/247
D. 418,146	12/1999	Frye et al.	D14/248	5,745,566 *	4/1998	Petrella et al.	379/433
D. 418,504	1/2000	Frye et al.	D14/138	5,768,370 *	6/1998	Maatta et al.	379/433
D. 419,550	1/2000	Caroen et al.	D14/138	5,848,152	12/1998	Slipy et al.	379/433
D. 419,992	2/2000	Kolinen	D14/138	5,982,881	11/1999	Mischenko	379/433
D. 419,994	2/2000	Curtis et al.	D14/138	6,084,962 *	7/2000	Plenge	379/433
D. 420,677	2/2000	Kolinen	D14/247	6,097,964 *	8/2000	Nuovo et al.	455/550
D. 420,678	2/2000	Curtis et al.	D14/247	6,122,530 *	9/2000	Overy et al.	455/566
D. 420,680	2/2000	Curtis	D14/248	6,125,287	9/2000	Cushman et al.	455/566
D. 421,004	2/2000	Curtis	D14/138	6,141,540	10/2000	Richards et al.	455/90
D. 421,005	2/2000	Lucaci et al.	D14/138	6,188,765	2/2001	Frye et al.	379/433
D. 421,019	2/2000	Curtis	D14/247	6,195,569	2/2001	Frederiksen	455/566

\* cited by examiner

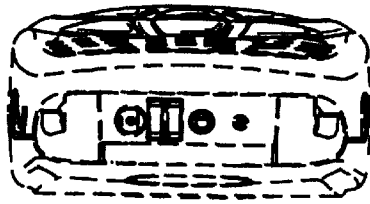


Fig. 1

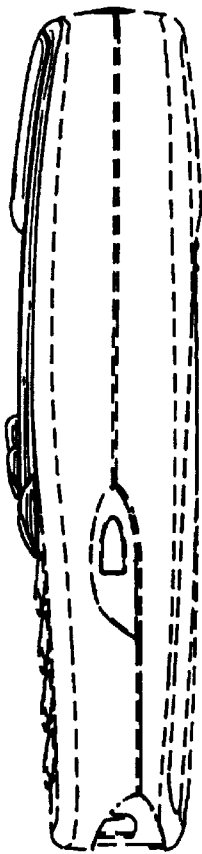


Fig. 2

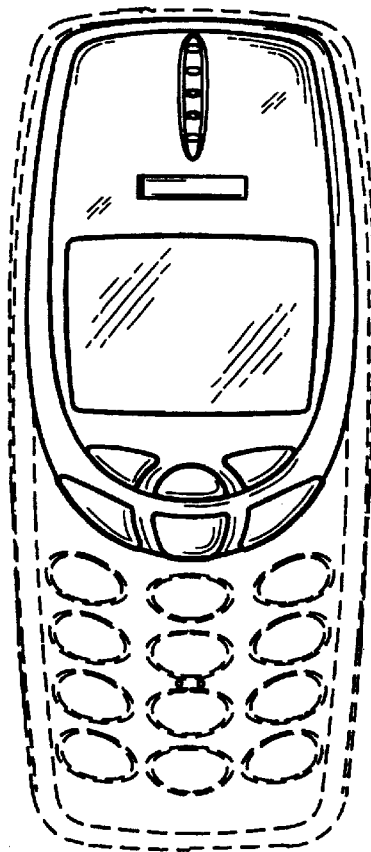


Fig. 3

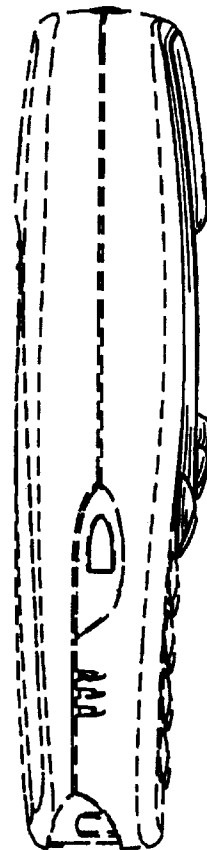


Fig. 4

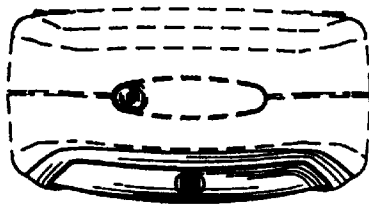


Fig. 5

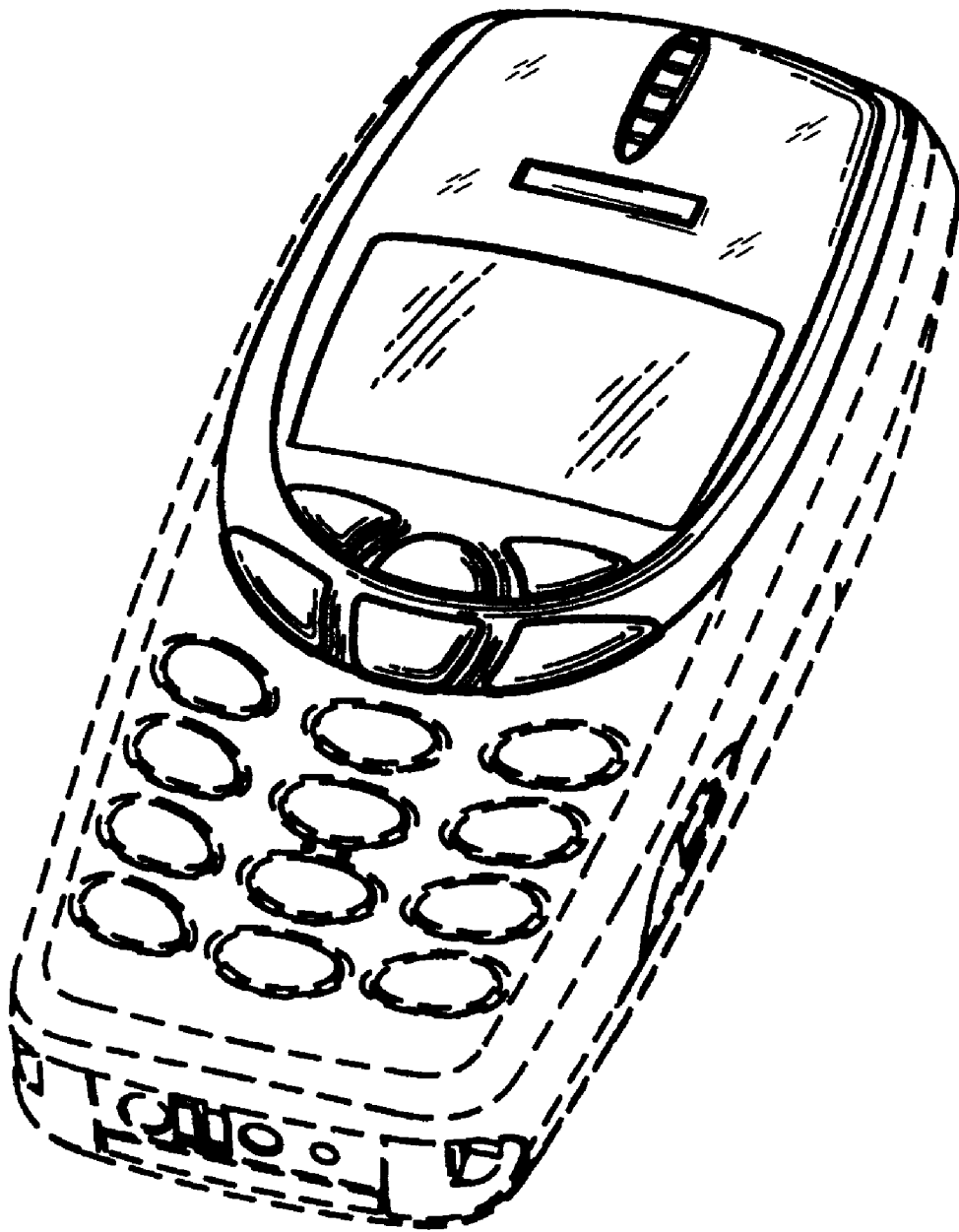


Fig. 6