US00D987653S

(12) United States Design Patent

Tussy

(10) Patent No.: US D987,653 S
(45) Date of Patent: ** May 30, 2023

(54) **DISPLAY SCREEN OR PORTION THEREOF WITH GRAPHICAL USER INTERFACE**

(71) Applicant: **FaceTec, Inc.**, Las Vegas, NV (US)

(72) Inventor: **Kevin Alan Tussy**, Las Vegas, NV (US)

(73) Assignee: **FaceTec, Inc.**, Las Vegas, NV (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/733,450**

(22) Filed: **May 1, 2020**

Related U.S. Application Data

(63) Continuation-in-part of application No. 29/733,324, filed on Apr. 30, 2020, which is a continuation of application No. 29/562,547, filed on Apr. 26, 2016, now abandoned.

(51) **LOC (14) Cl.** **14-04**

(52) **U.S. Cl.**
USPC **D14/486**

(58) **Field of Classification Search**
USPC D14/485–495
CPC G06F 3/048–04897; G06V 40/172; G06V 40/67; G06V 10/17; G06V 40/166; G06V 40/168; G06V 40/174; G06V 40/165; G06V 40/16
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,031,228	A	7/1991	Lu
5,699,449	A	12/1997	Javidi
5,781,650	A	7/1998	Lobo et al.
5,784,056	A	7/1998	Nielsen
5,835,616	A	11/1998	Lobo et al.
5,842,194	A	11/1998	Arbuckle
5,850,470	A	12/1998	Kung et al.
5,956,122	A	9/1999	Doster
5,982,912	A	11/1999	Fukui et al.
6,134,339	A	10/2000	Luo
6,173,068	B1	1/2001	Prokoski
6,212,030	B1	4/2001	Koriyama et al.
6,246,779	B1	6/2001	Fukui et al.
6,301,370	B1	10/2001	Steffens et al.
6,310,601	B1	10/2001	Moore et al.

(Continued)

FOREIGN PATENT DOCUMENTS

CA	3075573	1/2013
CN	103593594 2013	2/2014

(Continued)

OTHER PUBLICATIONS

This AI Tries To Figure Out If You're A Real Person, by Arron Tilley, dated Aug. 22, 2017, forbes.com0 [online]. Retrieved Nov. 5, 2022 from internet <URL:https://www.forbes.com/sites/aarontilley/2017/08/22/this-ai-tries-to-figure-out-if-youre-a-real-person/?sh=3ace069014e0> (Year: 2017).*

(Continued)

Primary Examiner — Andrew T Nemeth
(74) *Attorney, Agent, or Firm* — Weide & Miller, Ltd.

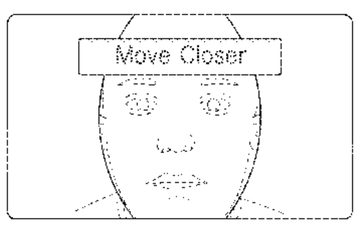
(57) **CLAIM**

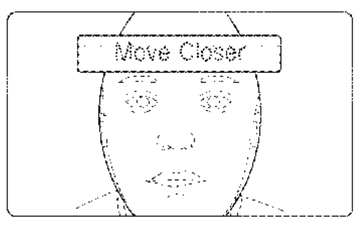
The ornamental design for a display screen or portion thereof with graphical user interface, as shown and described.

DESCRIPTION

FIG. **1** is a display screen or portion thereof with graphical user interface showing my new design; and,
FIG. **2** is the claimed portion of FIG. **1**, shown with a different broken line disclosure.
The broken lines and text indicate unclaimed portions of the article and form no part of the claimed design.

1 Claim, 2 Drawing Sheets





(56) **References Cited**

U.S. PATENT DOCUMENTS

6,389,176	B1	5/2002	Hsu et al.	
6,461,807	B1	10/2002	Friend et al.	
D485,279	S	1/2004	DeCombe	
6,678,664	B1	1/2004	Ganesan	
6,687,390	B2	2/2004	Avni et al.	
6,697,502	B2	2/2004	Luo	
6,711,584	B1	3/2004	Wajda et al.	
6,728,401	B1	4/2004	Hardeberg	
6,775,397	B1	8/2004	Hamalainen	
6,840,149	B2	1/2005	Beal	
6,961,361	B1	11/2005	Tanaka	
7,003,135	B2	2/2006	Hsieh et al.	
7,211,138	B2	5/2007	Yamamoto et al.	
7,218,774	B2	5/2007	Liu	
7,231,657	B2	6/2007	Honarvar et al.	
7,289,648	B2	10/2007	Liu	
7,308,581	B1	12/2007	Geosimonian	
7,333,963	B2	2/2008	Widrow et al.	
7,415,152	B2	8/2008	Jiang et al.	
7,428,320	B2	9/2008	Northcott et al.	
7,519,200	B2	4/2009	Gokturk et al.	
D596,192	S	7/2009	Shotel	
D601,582	S	10/2009	Chaudhri	
D606,082	S	12/2009	Parker	
7,636,450	B1	12/2009	Bourdev	
7,646,909	B2	1/2010	Jiang et al.	
7,660,444	B2	2/2010	Hamalainen	
7,710,693	B2	5/2010	Guzman-Casillas et al.	
7,783,118	B2	8/2010	Zhou	
7,788,247	B2	8/2010	Wang et al.	
7,804,982	B2	9/2010	Howard et al.	
D625,325	S	10/2010	Vu	
7,809,722	B2	10/2010	Gokturk et al.	
D637,604	S	5/2011	Brinda	
7,945,653	B2	5/2011	Zuckerberg et al.	
D640,277	S	6/2011	Woo	
7,960,470	B2	6/2011	Okahira	
D650,793	S	12/2011	Impas	
8,121,408	B2	2/2012	Omori	
8,165,352	B1	4/2012	Mohanty et al.	
8,200,980	B1	6/2012	Robinson et al.	
D663,743	S	7/2012	Tanghe	
D663,744	S	7/2012	Tanghe	
8,210,247	B2	7/2012	Blomgren	
8,244,211	B2	8/2012	Clark	
D667,423	S	9/2012	Nagamine	
8,280,120	B2	10/2012	Hoyos et al.	
8,316,237	B1	11/2012	Felsher et al.	
8,326,000	B2	12/2012	Jung et al.	
8,355,528	B2	1/2013	Bladel et al.	
8,392,268	B2	3/2013	Smith et al.	
8,396,246	B2	3/2013	Anbalagan et al.	
8,411,909	B1	4/2013	Zhao et al.	
8,416,312	B2	4/2013	Matsunaga	
8,457,367	B1	6/2013	Sipe	
8,460,024	B2	6/2013	Damodharan et al.	
D691,171	S *	10/2013	Brinda	D14/488
D692,018	S	10/2013	Wenz	
D692,915	S	11/2013	Brinda	
8,649,604	B2	2/2014	Steinberg et al.	
D702,714	S	4/2014	Abratowski	
D703,693	S *	4/2014	Brinda	D14/488
8,709,801	B2	4/2014	Pan et al.	
8,722,977	B2	5/2014	Wooten, Jr.	
8,743,051	B1	6/2014	Moy et al.	
8,750,574	B2	6/2014	Ganong et al.	
8,787,627	B1	7/2014	Freedman	
D710,878	S *	8/2014	Jung	D14/488
D712,909	S	9/2014	Francisco	
D712,915	S *	9/2014	Lee	D14/492
D713,410	S	9/2014	Francisco	
D715,317	S	10/2014	Perace	
8,856,541	B1	10/2014	Chaudhury	
8,867,849	B1	10/2014	Kirkham	
D717,339	S	11/2014	Wen	
D717,829	S	11/2014	Lee	
8,922,480	B1	12/2014	Freed et al.	
8,959,578	B2	2/2015	Simpson et al.	
D725,151	S	3/2015	Bray	
D725,668	S	3/2015	Clare	
D726,221	S	4/2015	Gomez	
D728,623	S	5/2015	Lim	
D730,389	S	5/2015	Izotov	
9,037,354	B2	5/2015	Mondragon	
D730,933	S *	6/2015	Lee	D14/488
D730,941	S	6/2015	Marianek	
D731,552	S	6/2015	Seo	
9,069,447	B2	6/2015	Kim	
D733,755	S	7/2015	Kadosh	
9,076,008	B1	7/2015	Moy	
9,076,028	B2	7/2015	Summers	
D736,812	S	8/2015	Yoo	
D737,325	S	8/2015	Kim	
D738,921	S	9/2015	Lim	
9,137,246	B2	9/2015	Parry et al.	
D740,833	S	10/2015	Bae	
9,152,849	B2	10/2015	Ganong et al.	
D742,417	S	11/2015	Brunner	
D745,567	S	12/2015	Park	
9,202,105	B1	12/2015	Wang et al.	
9,209,355	B2	12/2015	Senda et al.	
D747,354	S	1/2016	Park	
D752,078	S	3/2016	Guesnon, Jr.	
9,286,507	B2	3/2016	Shuster	
D753,132	S	4/2016	Cuthbert	
D756,401	S	5/2016	Soldner	
D757,084	S	5/2016	Chaudhri	
D759,723	S	6/2016	Butcher	
D761,268	S	7/2016	Oh	
D761,277	S	7/2016	Harvell	
D762,655	S	8/2016	Kai	
D762,673	S	8/2016	Seo	
D762,715	S	8/2016	Williamson	
D763,271	S	8/2016	Everette	
D763,306	S	8/2016	Lee	
D764,526	S	8/2016	Gomez	
D764,534	S	8/2016	Seo	
D765,117	S	8/2016	Joo	
D765,133	S	8/2016	Joo	
9,424,491	B1	8/2016	Kirkham	
9,430,695	B2	8/2016	Summers	
D765,674	S	9/2016	Kim	
D766,298	S	9/2016	Bae	
D766,314	S	9/2016	Bauer	
D766,926	S	9/2016	Fleischmann	
9,448,687	B1	9/2016	McKenzie	
D769,933	S	10/2016	Sabia	
9,459,132	B2	10/2016	Fehrenbach et al.	
D772,288	S	11/2016	Montes	
D772,929	S	11/2016	Montes	
D776,680	S	1/2017	Bae	
D776,695	S *	1/2017	Yu	D14/486
D777,755	S	1/2017	Beaty	
D778,923	S	2/2017	Zhou	
D778,940	S	2/2017	Williamson	
D780,781	S	3/2017	Ding	
9,600,649	B2	3/2017	Parry et al.	
9,607,138	B1	3/2017	Baldwin	
D783,633	S	4/2017	Oh	
D783,652	S	4/2017	Guan	
D784,363	S	4/2017	Fleming et al.	
9,621,548	B2	4/2017	Bud	
D787,527	S	5/2017	Wilberding	
D788,122	S	5/2017	Tada	
D788,810	S	6/2017	Kim	
D790,567	S	6/2017	Su	
D791,158	S	7/2017	Shiino	
D791,806	S *	7/2017	Brewington	D14/486
D792,903	S *	7/2017	Park	D14/486
9,708,909	B2	7/2017	Atkinson et al.	
D794,663	S	8/2017	Sakuma	
9,740,848	B2	8/2017	Parry et al.	
D798,321	S	9/2017	Lieb	
D798,902	S	10/2017	Choi	

(56) **References Cited**

U.S. PATENT DOCUMENTS

D799,544	S		10/2017	Kim
D800,743	S		10/2017	Rhodes
9,798,420	B2		10/2017	Ichikawa
D801,990	S		11/2017	Reissner
D803,870	S		11/2017	Landry
D805,546	S		12/2017	Wu
D805,548	S		12/2017	King
D806,092	S	*	12/2017	Hersh D14/485
D806,113	S		12/2017	Beckman
D806,733	S	*	1/2018	Lim D14/486
D807,378	S		1/2018	Imamura
D807,381	S		1/2018	Hersh
9,911,036	B2		3/2018	Hartman
9,953,149	B2	*	4/2018	Tussy H04W 12/06
D817,994	S		5/2018	Jou
D819,075	S		5/2018	Tsuji
9,958,687	B2		5/2018	Chern et al.
D820,305	S		6/2018	Clediere
D820,852	S	*	6/2018	Chung D14/485
D821,439	S		6/2018	Sowden
D821,443	S		6/2018	Jang
D822,054	S		7/2018	Persson
D823,335	S		7/2018	Alonso
D823,867	S		7/2018	Berlow
D823,891	S		7/2018	Lupe
10,032,066	B2		7/2018	Gongaware et al.
D825,587	S		8/2018	O'Rourke
D825,588	S		8/2018	Hashimoto
D829,240	S	*	9/2018	Rowny D14/488
D835,665	S	*	12/2018	Kimura D14/488
D850,478	S	*	6/2019	Kim D14/486
D854,578	S	*	7/2019	Clement D14/487
10,360,464	B1		7/2019	McKay et al.
D866,570	S	*	11/2019	Burroughs D14/485
D866,584	S	*	11/2019	Burroughs D14/486
D870,125	S	*	12/2019	Shim D14/485
D873,845	S	*	1/2020	Keyzer D14/488
10,614,204	B2	*	4/2020	Tussy G06V 40/18
D886,853	S	*	6/2020	Clement D14/487
D888,764	S	*	6/2020	Lee D14/492
10,691,934	B2	*	6/2020	Bud H04N 7/18
10,698,995	B2	*	6/2020	Tussy G06V 40/67
D891,464	S	*	7/2020	Zurmoehle D14/489
10,803,160	B2	*	10/2020	Tussy G06V 40/166
10,915,618	B2	*	2/2021	Tussy G06Q 20/3276
10,917,431	B2		2/2021	Turgeman
10,963,669	B2		3/2021	Berini et al.
D928,176	S	*	8/2021	Hamre D14/485
11,256,792	B2	*	2/2022	Tussy G06V 10/17
D949,178	S	*	4/2022	Kim D14/486
D952,661	S	*	5/2022	Behzadi D14/486
11,386,189	B2	*	7/2022	Van Os H04L 9/3231
11,393,108	B1	*	7/2022	Modestine G06F 3/04842
D963,681	S	*	9/2022	Stewart D14/485
D964,385	S	*	9/2022	Fang D14/485
2002/0054059	A1		5/2002	Schneiderman
2002/0055955	A1		5/2002	Lloyd-Jones et al.
2002/0087622	A1		7/2002	Anderson
2002/0103813	A1		8/2002	Frigon
2002/0191818	A1		12/2002	Matsuo et al.
2003/0039380	A1		2/2003	Sukegawa et al.
2003/0053663	A1		3/2003	Chen et al.
2003/0063669	A1		4/2003	Lee et al.
2003/0095053	A1		5/2003	Kandogan
2003/0103652	A1		6/2003	Lee et al.
2003/0133599	A1		7/2003	Tian et al.
2003/0198368	A1		10/2003	Kee
2003/0217294	A1		11/2003	Kyle
2003/0236832	A1		12/2003	McIntyre et al.
2004/0070678	A1		4/2004	Toyama et al.
2004/0081338	A1		4/2004	Takenaka
2004/0091136	A1		5/2004	Dombrowski
2004/0109584	A1		6/2004	Lestideau
2004/0125991	A1		7/2004	Yokoi
2004/0143598	A1		7/2004	Drucker et al.
2004/0190758	A1		9/2004	Doi et al.
2004/0201709	A1		10/2004	McIntyre et al.
2004/0218792	A1		11/2004	Spoonhower et al.
2004/0264780	A1		12/2004	Zhang et al.
2005/0031173	A1		2/2005	Hwang
2005/0065855	A1		3/2005	Geller
2005/0065885	A1		3/2005	Gordon
2005/0094849	A1		5/2005	Sung et al.
2005/0100195	A1		5/2005	Li
2005/0117802	A1		6/2005	Yonaha et al.
2005/0141766	A1		6/2005	Nagahashi et al.
2005/0180627	A1		8/2005	Yan et al.
2005/0190273	A1		9/2005	Toyama et al.
2005/0220347	A1		10/2005	Enomoto
2005/0251015	A1		11/2005	Takikawa et al.
2005/0265603	A1		12/2005	Porter
2006/0050933	A1		3/2006	Adam et al.
2006/0110014	A1		5/2006	Philomin
2006/0133672	A1		6/2006	Li
2006/0156029	A1		7/2006	Algazi
2006/0173560	A1		8/2006	Widrow
2006/0218225	A1		9/2006	Hee Voon et al.
2006/0222215	A1		10/2006	Jung et al.
2006/0224523	A1		10/2006	Elvitigala
2006/0239515	A1		10/2006	Zhang et al.
2006/0251292	A1		11/2006	Gokturk et al.
2006/0251338	A1		11/2006	Gokturk et al.
2006/0251339	A1		11/2006	Gokturk et al.
2006/0253491	A1		11/2006	Gokturk et al.
2006/0274978	A1		12/2006	Fukuda et al.
2007/0074114	A1		3/2007	Adjali et al.
2007/0081744	A1		4/2007	Gokturk et al.
2007/0098230	A1		5/2007	Norita
2007/0098303	A1		5/2007	Gallagher et al.
2007/0177805	A1		8/2007	Gallagher
2007/0206834	A1		9/2007	Shinkai et al.
2007/0211925	A1		9/2007	Aoki et al.
2007/0290499	A1		12/2007	Tame
2008/0037869	A1		2/2008	Zhou
2008/0046458	A1		2/2008	Tseng et al.
2008/0077595	A1		3/2008	Leebow
2008/0080743	A1		4/2008	Schneiderman et al.
2008/0080745	A1		4/2008	Vanhoucke et al.
2008/0091723	A1		4/2008	Zuckerberg et al.
2008/0100195	A1		5/2008	Kim et al.
2008/0130960	A1		6/2008	Yagnik
2008/0212849	A1		9/2008	Gao
2008/0317379	A1		12/2008	Steinberg et al.
2009/0185784	A1		9/2009	Hiroike et al.
2009/0226052	A1		9/2009	Fedel
2009/0232367	A1		9/2009	Shinzaki
2009/0252383	A1		10/2009	Adam et al.
2009/0324018	A1		12/2009	Tell
2009/0324022	A1		12/2009	Sangberg et al.
2009/0324137	A1		12/2009	Stallings et al.
2010/0050134	A1		2/2010	Clarkson
2010/0054600	A1		3/2010	Anbalagan et al.
2010/0054601	A1		3/2010	Anbalagan et al.
2010/0061631	A1		3/2010	Omori
2010/0067750	A1		3/2010	Matsuo
2010/0158327	A1		6/2010	Kangas et al.
2010/0232656	A1		9/2010	Ryu
2010/0245614	A1		9/2010	Matsunaga
2010/0272363	A1		10/2010	Steinberg et al.
2010/0287053	A1		11/2010	Ganong et al.
2010/0310133	A1		12/2010	Mason et al.
2010/0317420	A1		12/2010	Hoffberg
2010/0318366	A1		12/2010	Sullivan
2011/0063108	A1		3/2011	Aonuma et al.
2011/0169853	A1		7/2011	Oiwa
2011/0196753	A1		8/2011	Hodgdon et al.
2011/0202531	A1		8/2011	Zuckerberg et al.
2011/0225481	A1		9/2011	Zuckerberg et al.
2011/0276484	A1		11/2011	Pearson et al.
2011/0282906	A1		11/2011	Wong
2012/0066758	A1		3/2012	Kasturi
2012/0140993	A1		6/2012	Bruso et al.
2012/0235790	A1		9/2012	Zhao et al.
2012/0323704	A1		12/2012	Steelberg

(56) **References Cited**

U.S. PATENT DOCUMENTS

2013/0007032	A1	1/2013	Klappert	
2013/0015946	A1	1/2013	Lau	
2013/0057693	A1	3/2013	Baranek	
2013/0066526	A1	3/2013	Mondragon	
2013/0077835	A1	3/2013	Kritt et al.	
2013/0086674	A1	4/2013	Horvitz et al.	
2013/0179298	A1	7/2013	Segman	
2013/0226740	A1	8/2013	Biliosa	
2013/0236066	A1	9/2013	Shubinsky	
2013/0246158	A1	9/2013	Cannon	
2013/0267204	A1	10/2013	Schultz et al.	
2013/0342672	A1	12/2013	Gray et al.	
2014/0012756	A1	1/2014	Beraja	
2014/0022179	A1	1/2014	Yoon	
2014/0059673	A1	2/2014	Azar	
2014/0098174	A1	4/2014	Summers	
2014/0118257	A1	5/2014	Baldwin	
2014/0123275	A1	5/2014	Azar	
2014/0165187	A1	6/2014	Daesung	
2014/0169643	A1	6/2014	Todoroki	
2014/0173443	A1	6/2014	Hawkins, III	
2014/0197922	A1	7/2014	Stanwood	
2014/0198959	A1	7/2014	Derakhshani	
2014/0337791	A1	11/2014	Agnetta	
2014/0337948	A1	11/2014	Hoyos	
2014/0351761	A1	11/2014	Bae	
2015/0052462	A1	2/2015	Kulkarni	
2015/0055821	A1	2/2015	Fotland	
2015/0074615	A1	3/2015	Han	
2015/0077323	A1	3/2015	Ramaswamy	
2015/0131872	A1	5/2015	Ganong et al.	
2015/0148106	A1	5/2015	Choi	
2015/0153571	A1	6/2015	Ballard	
2015/0205399	A1	7/2015	Kim	
2015/0205454	A1	7/2015	Ainslie	
2015/0212684	A1	7/2015	Sabia	
2015/0227286	A1	8/2015	Kangas et al.	
2015/0310260	A1	10/2015	Summers	
2015/0378433	A1	12/2015	Savastinuk	
2016/0026425	A1	1/2016	Lee	
2016/0063235	A1	3/2016	Tussy	
2016/0071111	A1	3/2016	Wang et al.	
2016/0209939	A1	7/2016	Zambetti	
2016/0259528	A1	9/2016	Foss	
2016/0261675	A1	9/2016	Block	
2016/0284123	A1	9/2016	Hare	
2016/0342826	A1	11/2016	Apostolos et al.	
2016/0364561	A1	12/2016	Lee	
2017/0083086	A1	3/2017	Mazur	
2017/0111493	A1	4/2017	Stone	
2017/0220843	A1	8/2017	Apostolos et al.	
2018/0139157	A1	5/2018	Decculus	
2018/0165508	A1	6/2018	Othman et al.	
2018/0342018	A1	11/2018	Pancholi	
2019/0080072	A1 *	3/2019	Van Os	G06F 3/016
2019/0080189	A1	3/2019	Van Os	
2019/0105551	A1	4/2019	Ray	
2019/0213311	A1	7/2019	Tussy	
2020/0042685	A1	2/2020	Tussy et al.	
2022/0019325	A1 *	1/2022	Xu	G06F 21/32
2022/0342972	A1 *	10/2022	Van Os	G06F 21/32

FOREIGN PATENT DOCUMENTS

EP	1388802	2/2004
EP	1455297	9/2004
EP	1693801	8/2006
JP	2007-148968	6/2007
KR	20130097581	9/2013
KR	10-1755995	7/2017
WO	WO 2006/130542	12/2006
WO	WO 2008/107002	9/2008
WO	WO 2015/070320	5/2015
WO	WO 2017/100929	6/2017
WO	WO 2007/119818	10/2019

OTHER PUBLICATIONS

Life detection, dated to Dec. 1, 2020, innovatrics.com [online]. Retrieved Nov. 5, 2022 from internet <URL:https://web.archive.org/web/20201201080447/https://www.innovatrics.com/es/dot-kit-de-herramientas-de-onboarding-digital/deteccion-de-vida/> (Year: 2020).*

After Effects Tutorial—17—Introduction to Masking, by thenewboston, uploaded Dec. 7, 2008, youtube.com [online], [retrieved Jun. 15, 2017]. Available from <URL:https://www.youtube.com/watch?v=kWd51xDqzlc>.

Android_locked-out-PDF, screenshot, date unknown, author unknown.

Android-lock-screen1-PDF, screenshot, date unknown, author unknown.

Arrington, "First Screen Shots of Riya", Oct. 26, 2005, http://techcrunch.com/2005/10/26/riya-prepares-tolaunch-alpha/, 10 pages.

Arrington, "Ojos—Auto Name & Tag Your Photos", Aug. 15, 2005, http://techcrunch.com/2005/08/31/ojos-autoname-tag-your-photos/, 8 pages.

Baker, "Google & Riya Face Recognition Photo Search", Nov. 22, 2005, http://www.searchenginejournal.com/google-riya-face-recognition-photo-search/25501, 1 page_.

Becker et al., "Evaluation of Face Recognition Techniques for Application to Facebook", IEEE International conference on Automatic Face and Gesture Recognition, 2008, 6 pages.

Bletsko et al., "Using Skin-Color Motion for 3D Face Modelling and Synthesis", Sep. 6, 2003, WISP 2003, pp. 295-299_.

Facebook, "Making Photo Tagging Easier", https://m.facebook.com/notes/facebook/making-photo-tagging-easier/467145887130/?_tn_=C&_rdr, 2 pages.

Facetime-PDF, screenshot, date unknown, author unknown.

Girija Chetty and Michael Wagner, "Automated lip feature extraction for liveness verification in audio-video authentication", Human Computer Communication laboratory School of Information Sciences and Engineering, University of Canberra, Australia, Proc. Image and Vision Computer (2004), Jan. 1, 2004, 6 pages.

Hagai Aronowitz, et al., Multi-Modal Biometrics for Mobile Authentication, IJCB, 2014.

Image 9-PDF, screenshot, date unknown, author unknown.

Iphone-Facetime-PDF, screen shot, date unknown, author unknown.

Keyboard-PDF, screen shot, date unknown, author unknown.

Kishore, "How to Add, Upload, and Tag Your Pictures and Photos in FaceBook", http://www.online-tech-tips.com/fun-stuff/how-to-add-upload-and-tag-your-pictures-and-photos-in-facebook/, Aug. 11, 2007, 13 pages.

Michelson et al., "Auto-tagging the Facebook", 2006, http://cs229.stanford.edu/proj2006/MichelsonOrtizAutoTaggingTheFacebook.pdf, 5 pages.

Optical Illusions—Animated GIF & JPG, dated Oct. 28, 2013, plus.google.com [online], [retrieved Jun. 19, 2017]. Available from internet <URL:https://plus.google.com/+Whak-Off/posts/CX4YhzXSQy2>.

Passcode-lock-PDF, screen shot, date unknown, author unknown.

Passcode-PDF, screen shot, date unknown, author unknown.

Ponce, "Riya, Photo Sharing with Face Recognition", Oct. 28, 2005, http://www.ohgizmo.com/2005/10/28/riya-photo-sharing-with-face-recognition/, 2 pages.

Rafalovitch, "Viewfinder Friends—idea for Facebook application", Nov. 14, 2007, http://blog.outerthoughts.com/2007/11/viewfinder-friends-idea-for-facebook-application/, 5pages.

Rogssignol, Joe. "How to customise the Lock screen in iOS 7." iDownloadBlog, posted Jan. 11, 2014 (Retrieved from the internet Mar. 30, 2016). Internet URL: <http: //www.idownloadblog.com/2014/01/11/how-to-theme-the-lock-screen-on-oos-7/>.

Schuon et al., "CS229 Project Report: Automated photo tagging in Facebook", Dec. 2007, http://cs229.Stanford.edu/proj2007/SchuonRobertsonZou-AutomatedPhotoTaggingInFacebook.pdf, 5 pages.

Screen Shot-PDF, screen shot, date unknown, author unknown.

Screenshot_2012-06-20-16-06-32-PDF, screen shot, date unknown, author unknown.

(56) **References Cited**

OTHER PUBLICATIONS

Shutterstock [online], Aug. 4, 2014 [retried Jul. 24, 2016]. Retrieved from the internet URL:http://www.tineye.com/search/543afefb8836762927558call587ce7f99a706ad/.,pic-199246373 stock phot male silhouette image.

Silvio Barra, et al., FAME: Face Authentication for Mobile Encounter, IEEE, 2013.

Stone, et al. "Autotagging Facebook: Social network context improves photo annotation," In Workshop on Internet Vision, 2008, 2 pages_.

The Universal Face Login for 5 Billion Smartphones, zoomlogin.com [online], [retrieved Jun. 19, 2017]. Available from internet <URL:https://zoomlogin.com/>.

Topic_facetime_ios—PDF, screen shot, date unknown, author unknown.

Unknown, "What does it mean to "tag" someones picture on facebook, whats the point of doing it?", Nov. 28, 2007, https://answers.yahoo.com/question/index?qid=20071128123629AAY0DLP, 2 pages.

Wong, Yongkang, et al. "Patch-based probabilistic image quality assessment for face selection and improved video-based face recognition." CVPR 2011 Workshops. IEEE, 2011.

Wp_ss_20130124_00071-PDF, screen shot, Jan. 24, 2013, author unknown.

Yadav, "Facebook—The Complete Biography", Aug. 25, 2006, http://mashable.com12006/08/25/facebook-protile/, 7 pages_.

Yang, et al., "Detecting Faces in Images: A Survey", Jan. 2002, IEEE Trans. Pattern Analysis Machine Intelligence, 24(1), 2 pages.

"An Overview of Face Liveness Detection", Chakraborty, et al., Dept. of Computer Science and Engineering, National Institute of Technology, Silchar India, International Journal on Information Theory (IJIT), vol. 3, No. 2, DOI: 10.512/ijit.2014.3202, 15 pages, Apr. 2014.

"SVO Fast Semi-Direct Monocular Visual Odometry", Christian Forster, et al., ResearchGate, Conference Paper in Proceedings—IEEE International Conference on Robotics and Automation, DOI: 10.1109/ICRA.2014.6906584, https://www.researchgate.net/publication/262378002, 9 pages, May 18, 2014.

"Evaluating Liveness by Face Images and the Structure Tensor", Kollreider, et al., Halmstad University, SE-30118, Sweden, Halmstad University Post-Print, © IEEE 2005, Fourth IEEE Workshop on Automatic Identification Advanced Technologies, 2005, IEEE: 2005. pp. 75-80, DOI: http://dx.doi.org/10.1109/AUTOID.2005.20, 7 pages, date unknown.

"An Iterative Image registration Technique with an Application to Stereo Vision", Lucas, et al., Computer Science Department, Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213, From Proceedings of Imaging Understanding Workshop, pp. 121-130 (1981)., pp. 121-130, 10 pgs., date unknown.

"Head Gesture Recognition Using Optical Flow Based Classification with Reinforcement of GMM Based Background Subtraction", Saikia, et al., Department of Electronics and Communication Engineering, DBCET, Assam Don Bosco University, International Journal of Computer Application (0975-8887), vol. 65—No. 25, Mar. 2013, 7 pgs.

"A Liveness Detection Method for Face Recognition Base on Optical Flow Field", Bao, et al., College of Computer Science, Zhejiang University, 978-1-4244-3986-7/09/$25.00 © 2009 IEEE,IEEE Xplore (Mar. 15, 2022 download), 4 pages.

* cited by examiner

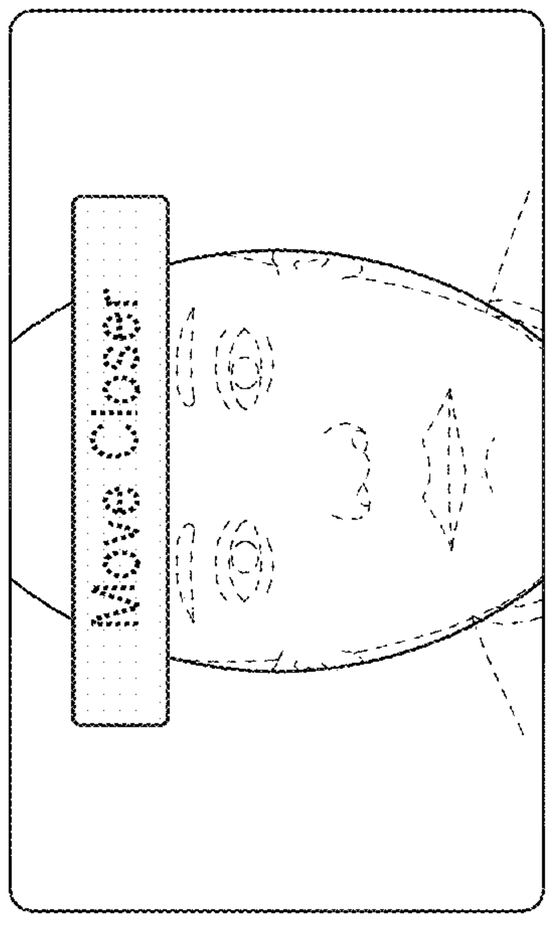


FIG. 1

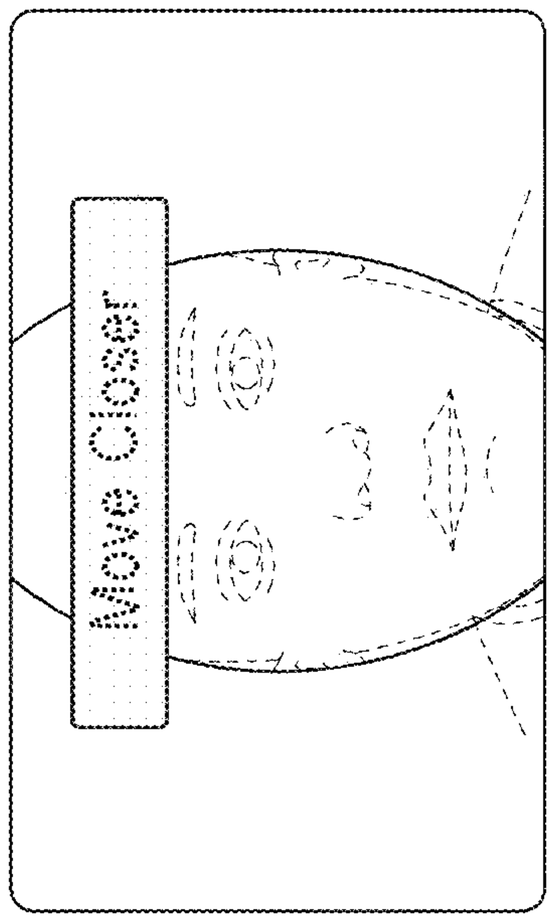


FIG. 2