



US00D987653S

(12) **United States Design Patent** (10) **Patent No.:** **US D987,653 S**
Tussy (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**

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 2/2014

(Continued)

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.** **D14/486**
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.

OTHER PUBLICATIONS

This AI Tries To Figure Out If You're A Real Person, by Arron Tilley, dated Aug. 22, 2017, forbes.com [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.	D717,829	S	11/2014	Lee	
6,461,807	B1	10/2002	Friend et al.	8,922,480	B1	12/2014	Freed et al.	
D485,279	S	1/2004	DeCombe	8,959,578	B2	2/2015	Simpson et al.	
6,678,664	B1	1/2004	Ganesan	D725,151	S	3/2015	Bray	
6,687,390	B2	2/2004	Avni et al.	D725,668	S	3/2015	Clare	
6,697,502	B2	2/2004	Luo	D726,221	S	4/2015	Gomez	
6,711,584	B1	3/2004	Wajda et al.	D728,623	S	5/2015	Lim	
6,728,401	B1	4/2004	Hardeberg	D730,389	S	5/2015	Izotov	
6,775,397	B1	8/2004	Hamalainen	9,037,354	B2	5/2015	Mondragon	
6,840,149	B2	1/2005	Beal	D730,933	S *	6/2015	Lee	D14/488
6,961,361	B1	11/2005	Tanaka	D730,941	S	6/2015	Marianek	
7,003,135	B2	2/2006	Hsieh et al.	D731,552	S	6/2015	Seo	
7,211,138	B2	5/2007	Yamamoto et al.	9,069,447	B2	6/2015	Kim	
7,218,774	B2	5/2007	Liu	D733,755	S	7/2015	Kadosh	
7,231,657	B2	6/2007	Honarvar et al.	9,076,008	B1	7/2015	Moy	
7,289,648	B2	10/2007	Liu	9,076,028	B2	7/2015	Summers	
7,308,581	B1	12/2007	Geosimonian	D736,812	S	8/2015	Yoo	
7,333,963	B2	2/2008	Widrow et al.	D737,325	S	8/2015	Kim	
7,415,152	B2	8/2008	Jiang et al.	D738,921	S	9/2015	Lim	
7,428,320	B2	9/2008	Northcott et al.	9,137,246	B2	9/2015	Parry et al.	
7,519,200	B2	4/2009	Gokturk et al.	D740,833	S	10/2015	Bae	
D596,192	S	7/2009	Shotel	9,152,849	B2	10/2015	Ganong et al.	
D601,582	S	10/2009	Chaudhri	D742,417	S	11/2015	Brunner	
D606,082	S	12/2009	Parker	D745,567	S	12/2015	Park	
7,636,450	B1	12/2009	Bourdev	9,202,105	B1	12/2015	Wang et al.	
7,646,909	B2	1/2010	Jiang et al.	9,209,355	B2	12/2015	Senda et al.	
7,660,444	B2	2/2010	Hamalainen	D747,354	S	1/2016	Park	
7,710,693	B2	5/2010	Guzman-Casillas et al.	D752,078	S	3/2016	Guesnon, Jr.	
7,783,118	B2	8/2010	Zhou	9,286,507	B2	3/2016	Shuster	
7,788,247	B2	8/2010	Wang et al.	D753,132	S	4/2016	Cuthbert	
7,804,982	B2	9/2010	Howard et al.	D756,401	S	5/2016	Soldner	
D625,325	S	10/2010	Vu	D757,084	S	5/2016	Chaudhri	
7,809,722	B2	10/2010	Gokturk et al.	D759,723	S	6/2016	Butcher	
D637,604	S	5/2011	Brinda	D761,268	S	7/2016	Oh	
7,945,653	B2	5/2011	Zuckerberg et al.	D761,277	S	7/2016	Harvell	
D640,277	S	6/2011	Woo	D762,655	S	8/2016	Kai	
7,960,470	B2	6/2011	Okahira	D762,673	S	8/2016	Seo	
D650,793	S	12/2011	Impas	D762,715	S	8/2016	Williamson	
8,121,408	B2	2/2012	Omori	D763,271	S	8/2016	Everette	
8,165,352	B1	4/2012	Mohanty et al.	D763,306	S	8/2016	Lee	
8,200,980	B1	6/2012	Robinson et al.	D764,526	S	8/2016	Gomez	
D663,743	S	7/2012	Tanghe	D764,534	S	8/2016	Seo	
D663,744	S	7/2012	Tanghe	D765,117	S	8/2016	Joo	
8,210,247	B2	7/2012	Blomgren	D765,133	S	8/2016	Joo	
8,244,211	B2	8/2012	Clark	9,424,491	B1	8/2016	Kirkham	
D667,423	S	9/2012	Nagamine	9,430,695	B2	8/2016	Summers	
8,280,120	B2	10/2012	Hoyos et al.	D765,674	S	9/2016	Kim	
8,316,237	B1	11/2012	Felsher et al.	D766,298	S	9/2016	Bae	
8,326,000	B2	12/2012	Jung et al.	D766,314	S	9/2016	Bauer	
8,355,528	B2	1/2013	Bladel et al.	D766,926	S	9/2016	Fleischmann	
8,392,268	B2	3/2013	Smith et al.	9,448,687	B1	9/2016	McKenzie	
8,396,246	B2	3/2013	Anbalagan et al.	D769,933	S	10/2016	Sabia	
8,411,909	B1	4/2013	Zhao et al.	9,459,132	B2	10/2016	Fehrenbach et al.	
8,416,312	B2	4/2013	Matsunaga	D772,288	S	11/2016	Montes	
8,457,367	B1	6/2013	Sipe	D772,929	S	11/2016	Montes	
8,460,024	B2	6/2013	Damodharan et al.	D776,680	S	1/2017	Bae	
D691,171	S *	10/2013	Brinda	D776,695	S *	1/2017	Yu	D14/486
D692,018	S	10/2013	Wenz	D777,755	S	1/2017	Beaty	
D692,915	S	11/2013	Brinda	D778,923	S	2/2017	Zhou	
8,649,604	B2	2/2014	Steinberg et al.	D778,940	S	2/2017	Williamson	
D702,714	S	4/2014	Abratowski	D780,781	S	3/2017	Ding	
D703,693	S *	4/2014	Brinda	9,600,649	B2	3/2017	Parry et al.	
8,709,801	B2	4/2014	Pan et al.	9,607,138	B1	3/2017	Baldwin	
8,722,977	B2	5/2014	Wooten, Jr.	D783,633	S	4/2017	Oh	
8,743,051	B1	6/2014	Moy et al.	D783,652	S	4/2017	Guan	
8,750,574	B2	6/2014	Ganong et al.	D784,363	S	4/2017	Fleming et al.	
8,787,627	B1	7/2014	Freedman	9,621,548	B2	4/2017	Bud	
D710,878	S *	8/2014	Jung	D787,527	S	5/2017	Wilberding	
D712,909	S	9/2014	Francisco	D788,122	S	5/2017	Tada	
D712,915	S *	9/2014	Lee	D788,810	S	6/2017	Kim	
D713,410	S	9/2014	Francisco	D790,567	S	6/2017	Su	
D715,317	S	10/2014	Perace	D791,158	S	7/2017	Shiino	
8,856,541	B1	10/2014	Chaudhury	D791,806	S *	7/2017	Brewington	D14/486
8,867,849	B1	10/2014	Kirkham	D792,903	S *	7/2017	Park	D14/486
D717,339	S	11/2014	Wen	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		2004/0190758	A1	9/2004	Doi et al.
D800,743	S	10/2017	Rhodes		2004/0201709	A1	10/2004	McIntyre et al.
9,798,420	B2	10/2017	Ichikawa		2004/0218792	A1	11/2004	Spoonhower et al.
D801,990	S	11/2017	Reissner		2004/0264780	A1	12/2004	Zhang et al.
D803,870	S	11/2017	Landry		2005/0031173	A1	2/2005	Hwang
D805,546	S	12/2017	Wu		2005/0065855	A1	3/2005	Geller
D805,548	S	12/2017	King		2005/0065885	A1	3/2005	Gordon
D806,092	S *	12/2017	Hersh	D14/485	2005/0094849	A1	5/2005	Sung et al.
D806,113	S	12/2017	Beckman		2005/0100195	A1	5/2005	Li
D806,733	S *	1/2018	Lim	D14/486	2005/0117802	A1	6/2005	Yonaha et al.
D807,378	S	1/2018	Imamura		2005/0141766	A1	6/2005	Nagahashi et al.
D807,381	S	1/2018	Hersh		2005/0180627	A1	8/2005	Yan et al.
9,911,036	B2	3/2018	Hartman		2005/0190273	A1	9/2005	Toyama et al.
9,953,149	B2 *	4/2018	Tussy	H04W 12/06	2005/0220347	A1	10/2005	Enomoto
D817,994	S	5/2018	Jou		2005/0251015	A1	11/2005	Takikawa et al.
D819,075	S	5/2018	Tsuji		2005/0265603	A1	12/2005	Porter
9,958,687	B2	5/2018	Chern et al.		2006/0050933	A1	3/2006	Adam et al.
D820,305	S	6/2018	Clediere		2006/0110014	A1	5/2006	Philomin
D820,852	S *	6/2018	Chung	D14/485	2006/0133672	A1	6/2006	Li
D821,439	S	6/2018	Sowden		2006/0156029	A1	7/2006	Algazi
D821,443	S	6/2018	Jang		2006/0173560	A1	8/2006	Widrow
D822,054	S	7/2018	Persson		2006/0218225	A1	9/2006	Hee Voon et al.
D823,335	S	7/2018	Alonso		2006/0222215	A1	10/2006	Jung et al.
D823,867	S	7/2018	Berlow		2006/0224523	A1	10/2006	Elvitigala
D823,891	S	7/2018	Lupe		2006/0239515	A1	10/2006	Zhang et al.
10,032,066	B2	7/2018	Gongaware et al.		2006/0251292	A1	11/2006	Gokturk et al.
D825,587	S	8/2018	O'Rourke		2006/0251338	A1	11/2006	Gokturk et al.
D825,588	S	8/2018	Hashimoto		2006/0251339	A1	11/2006	Gokturk et al.
D829,240	S *	9/2018	Rowny	D14/488	2006/0253491	A1	11/2006	Gokturk et al.
D835,665	S *	12/2018	Kimura	D14/488	2006/0274978	A1	12/2006	Fukuda et al.
D850,478	S *	6/2019	Kim	D14/486	2007/0074114	A1	3/2007	Adjali et al.
D854,578	S *	7/2019	Clement	D14/487	2007/0081744	A1	4/2007	Gokturk et al.
10,360,464	B1	7/2019	McKay et al.		2007/0098230	A1	5/2007	Norita
D866,570	S *	11/2019	Burroughs	D14/485	2007/0098303	A1	5/2007	Gallagher et al.
D866,584	S *	11/2019	Burroughs	D14/486	2007/0177805	A1	8/2007	Gallagher
D870,125	S *	12/2019	Shim	D14/485	2007/0206834	A1	9/2007	Shinkai et al.
D873,845	S *	1/2020	Keyzer	D14/488	2007/0211925	A1	9/2007	Aoki et al.
10,614,204	B2 *	4/2020	Tussy	G06V 40/18	2007/0290499	A1	12/2007	Tame
D886,853	S *	6/2020	Clement	D14/487	2008/0037869	A1	2/2008	Zhou
D888,764	S *	6/2020	Lee	D14/492	2008/0046458	A1	2/2008	Tseng et al.
10,691,934	B2 *	6/2020	Bud	H04N 7/18	2008/0077595	A1	3/2008	Leebow
10,698,995	B2 *	6/2020	Tussy	G06V 40/67	2008/0080743	A1	4/2008	Schneiderman et al.
D891,464	S *	7/2020	Zurmoehle	D14/489	2008/0080745	A1	4/2008	Vanhoucke et al.
10,803,160	B2 *	10/2020	Tussy	G06V 40/166	2008/0091723	A1	4/2008	Zuckerberg et al.
10,915,618	B2 *	2/2021	Tussy	G06Q 20/3276	2008/0100195	A1	5/2008	Kim et al.
10,917,431	B2	2/2021	Turgeman		2008/0130960	A1	6/2008	Yagnik
10,963,669	B2	3/2021	Berini et al.		2008/0212849	A1	9/2008	Gao
D928,176	S *	8/2021	Hamre	D14/485	2008/0317379	A1	12/2008	Steinberg et al.
11,256,792	B2 *	2/2022	Tussy	G06V 10/17	2009/0185784	A1	9/2009	Hiroike et al.
D949,178	S *	4/2022	Kim	D14/486	2009/0226052	A1	9/2009	Fedel
D952,661	S *	5/2022	Behzadi	D14/486	2009/0232367	A1	9/2009	Shinzaki
11,386,189	B2 *	7/2022	Van Os	H04L 9/3231	2009/0252383	A1	10/2009	Adam et al.
11,393,108	B1 *	7/2022	Modestine	G06F 3/04842	2009/0324018	A1	12/2009	Tell
D963,681	S *	9/2022	Stewart	D14/485	2009/0324022	A1	12/2009	Sangberg et al.
D964,385	S *	9/2022	Fang	D14/485	2009/0324137	A1	12/2009	Stallings et al.
2002/0054059	A1	5/2002	Schneiderman		2010/0050134	A1	2/2010	Clarkson
2002/0055955	A1	5/2002	Lloyd-Jones et al.		2010/0054600	A1	3/2010	Anbalagan et al.
2002/0087622	A1	7/2002	Anderson		2010/0054601	A1	3/2010	Anbalagan et al.
2002/0103813	A1	8/2002	Frigon		2010/0061631	A1	3/2010	Omori
2002/0191818	A1	12/2002	Matsuo et al.		2010/0067750	A1	3/2010	Matsuo
2003/0039380	A1	2/2003	Sukegawa et al.		2010/0158327	A1	6/2010	Kangas et al.
2003/0053663	A1	3/2003	Chen et al.		2010/0232656	A1	9/2010	Ryu
2003/0063669	A1	4/2003	Lee et al.		2010/0245614	A1	9/2010	Matsunaga
2003/0095053	A1	5/2003	Kandogan		2010/0272363	A1	10/2010	Steinberg et al.
2003/0103652	A1	6/2003	Lee et al.		2010/0287053	A1	11/2010	Ganong et al.
2003/0133599	A1	7/2003	Tian et al.		2010/0310133	A1	12/2010	Mason et al.
2003/0198368	A1	10/2003	Kee		2010/0317420	A1	12/2010	Hoffberg
2003/0217294	A1	11/2003	Kyle		2010/0318366	A1	12/2010	Sullivan
2003/0236832	A1	12/2003	McIntyre et al.		2011/0063108	A1	3/2011	Aonuma et al.
2004/0070678	A1	4/2004	Toyama et al.		2011/0169853	A1	7/2011	Oiwa
2004/0081338	A1	4/2004	Takenaka		2011/0196753	A1	8/2011	Hodgdon et al.
2004/0091136	A1	5/2004	Dombrowski		2011/0202531	A1	8/2011	Zuckerberg et al.
2004/0109584	A1	6/2004	Lestideau		2011/0225481	A1	9/2011	Zuckerberg et al.
2004/0125991	A1	7/2004	Yokoi		2011/0276484	A1	11/2011	Pearson et al.
2004/0143598	A1	7/2004	Drucker 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/, 5 pages.

Roggsignol, 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-ios-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 [retrieved Jul. 24, 2016]. Retrieved from the internet URL: <http://www.tineye.com/search/543afeb8836762927558call587ce7f99a706ad/./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.com/2006/08/25/facebook-profile/>, 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

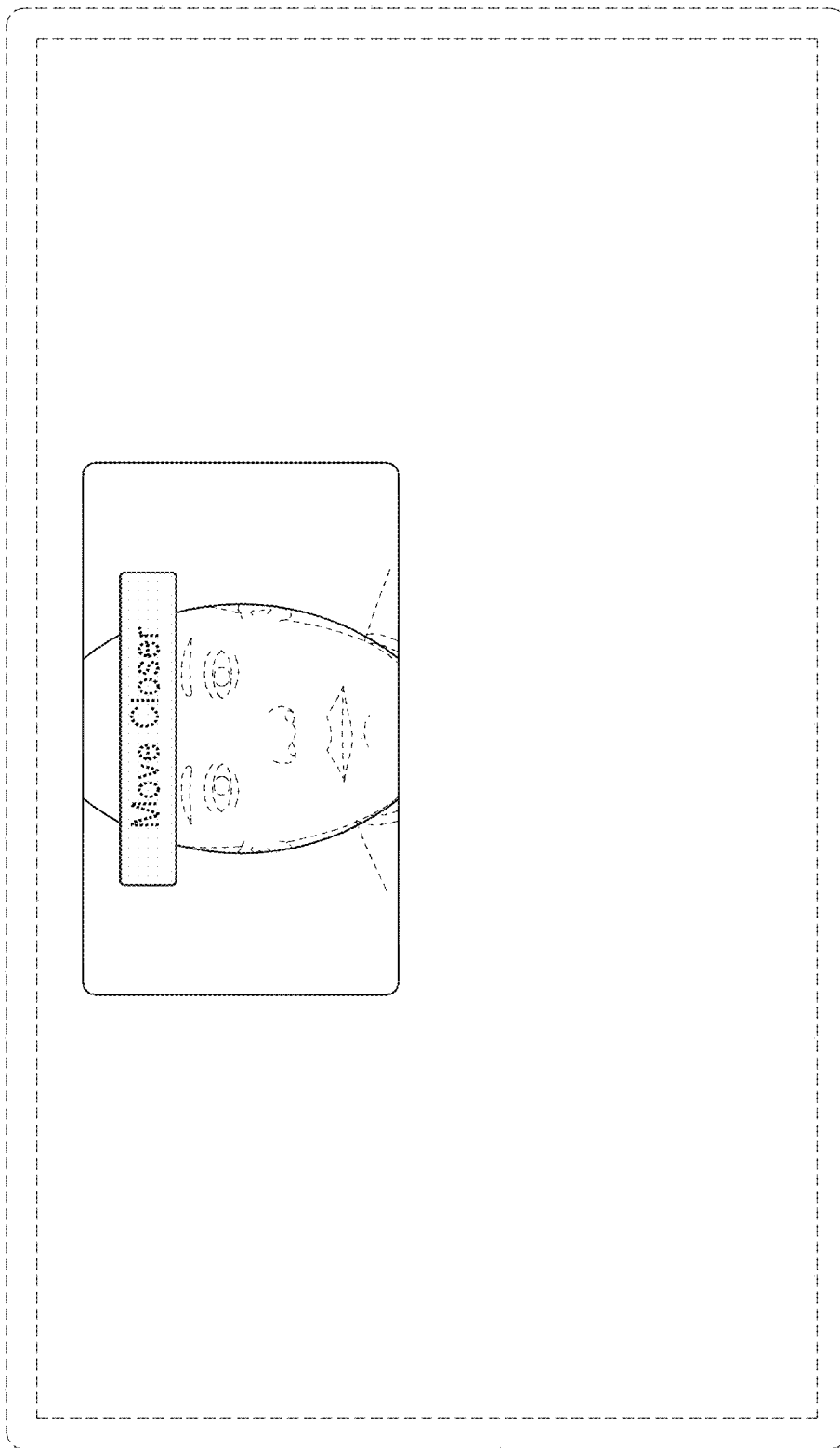


FIG. 1

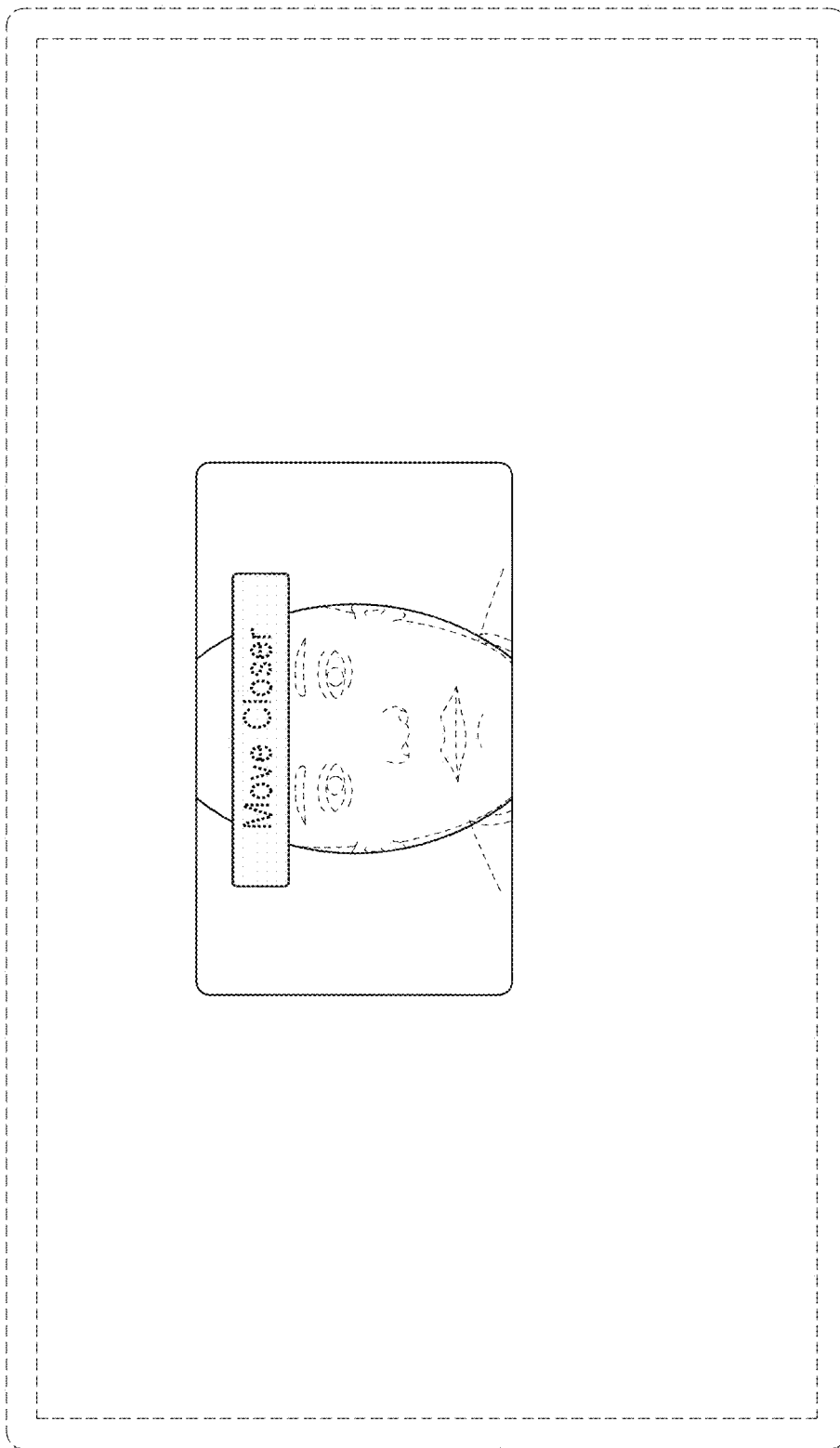


FIG. 2