



US00D928190S

(12) **United States Design Patent** (10) **Patent No.:** **US D928,190 S**
Hartman et al. (45) **Date of Patent:** **** Aug. 17, 2021**

(54) **MOBILE DEVICE SCREEN OR PORTION THEREOF WITH AN ANIMATED GRAPHICAL USER INTERFACE**

FOREIGN PATENT DOCUMENTS

EP 3 079 326 A1 10/2016
WO WO-96/34358 A1 10/1996
WO WO-2011/103520 A1 8/2011

(71) Applicant: **Acorns Grow Inc.**, Irvine, CA (US)

OTHER PUBLICATIONS

(72) Inventors: **Skylar Garrett Hartman**, Costa Mesa, CA (US); **John Cafazza**, Phoenix, AZ (US); **David Keegan**, Irvine, CA (US)

“Aggregate Transaction Data.” *Plaid*, (Sep. 22, 2015). <https://plaid.com/solutions/transaction-data/>. Web. Accessed on Apr. 20, 2017. 5 pages.

(73) Assignee: **Acorns Grow Incorporated**, Irvine, CA (US)

(Continued)

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

Primary Examiner — Andrew T Nemeth

(21) Appl. No.: **29/716,382**

(74) *Attorney, Agent, or Firm* — Mintz Levin Cohn Ferris Glovsky and Popeo, P.C.

(22) Filed: **Dec. 9, 2019**

(57) **CLAIM**

Related U.S. Application Data

(63) Continuation-in-part of application No. 15/592,093, filed on May 10, 2017, which is a continuation-in-part of application No. 13/830,579, filed on Mar. 14, 2013, now Pat. No. 10,937,097.

The ornamental design for a mobile device screen or portion thereof with an animated graphical user interface, as shown and described.

(51) **LOC (13) Cl.** **14-04**

DESCRIPTION

(52) **U.S. Cl.**
USPC **D14/486; D14/488**

(58) **Field of Classification Search**
USPC D14/485–495
CPC G06F 3/048–04897
See application file for complete search history.

FIG. 1 is a front view of a mobile device screen or portion thereof with an animated graphical user interface showing the first image in a sequence; FIG. 2 is the second image thereof, FIG. 3 is the third image thereof; and, FIG. 4 is the fourth image thereof.

(56) **References Cited**

U.S. PATENT DOCUMENTS

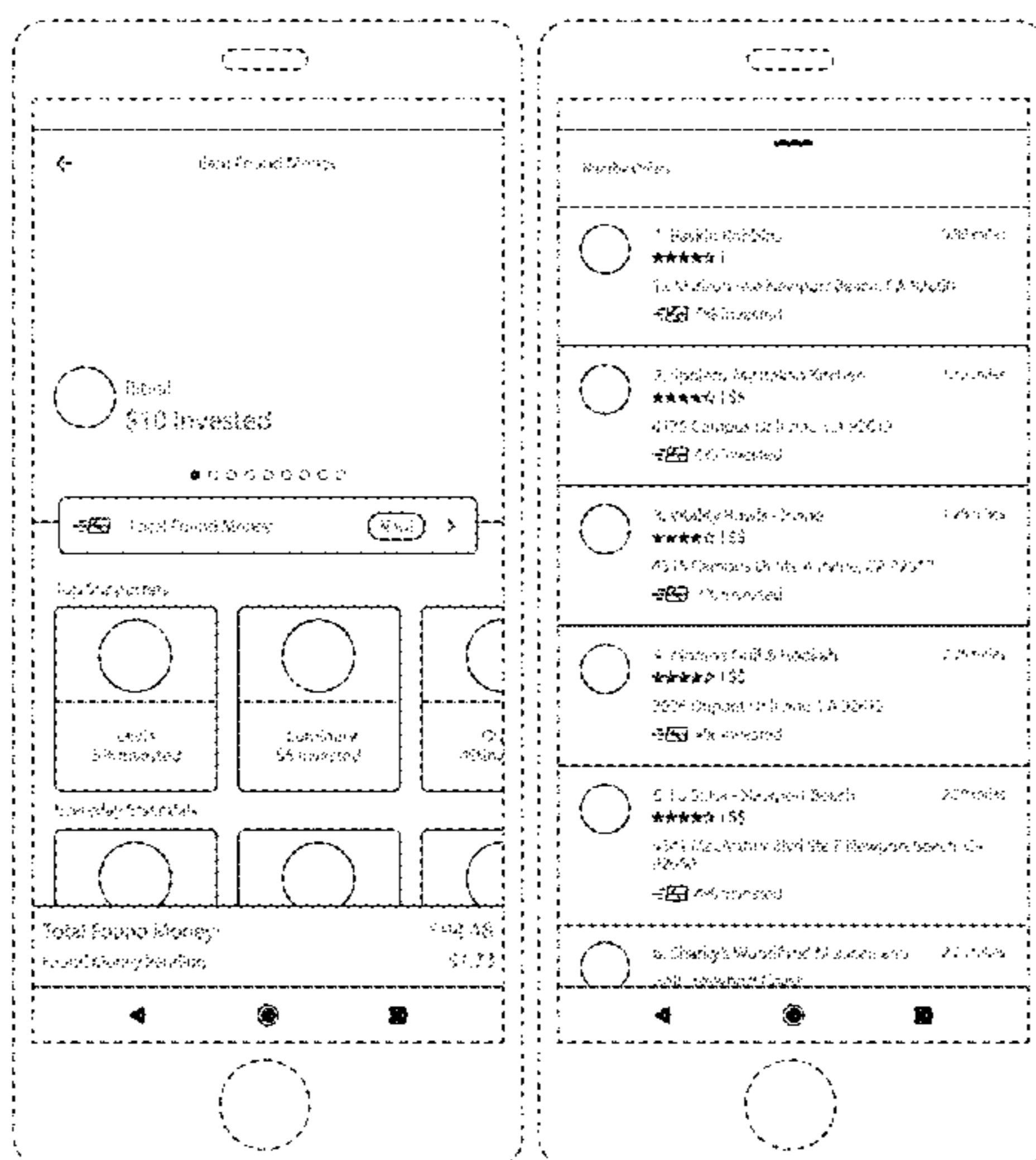
4,750,119 A 6/1988 Cohen et al.
4,751,640 A 6/1988 Lucas et al.
5,202,826 A 4/1993 McCarthy
5,297,026 A 3/1994 Hoffman
5,483,444 A 1/1996 Heintzeman et al.
5,513,102 A 4/1996 Auriemma
5,537,314 A 7/1996 Kanter
5,621,640 A 4/1997 Burke

The outermost broken lines show a mobile device screen or portion thereof. The other broken lines, including the slashed line text, show portions of the graphical user interface. None of the broken lines form part of the claimed design.

The appearance of the animated graphical user interface sequentially transitions between the images shown in FIGS. 1-4. The process or period in which one image transitions to another forms no part of the claimed design.

(Continued)

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,689,100 A	11/1997	Carrithers et al.	D752,604 S	3/2016	Zhang
5,734,838 A	3/1998	Robinson et al.	D753,155 S	4/2016	Nies et al.
5,774,870 A	6/1998	Storey	D754,707 S	4/2016	Zurn
5,787,404 A	7/1998	Fernandez-Holmann	D757,073 S	5/2016	Kim
5,890,963 A	4/1999	Yen	D760,759 S	7/2016	Butcher et al.
5,970,480 A	10/1999	Kalina	D762,701 S	8/2016	Apodaca et al.
5,991,736 A	11/1999	Ferguson et al.	D763,284 S	8/2016	Edman
6,070,153 A	5/2000	Simpson	D763,285 S	8/2016	Chan et al.
6,076,166 A	6/2000	Moshfeghi et al.	D763,886 S	8/2016	Rickes et al.
6,088,682 A	7/2000	Burke	D767,612 S	9/2016	Hemsley
6,105,865 A	8/2000	Hardesty	D770,515 S	11/2016	Cho et al.
6,112,191 A	8/2000	Burke	D772,910 S	11/2016	Baker et al.
6,164,533 A	12/2000	Barton	D773,478 S	12/2016	Wesley et al.
6,598,028 B1	7/2003	Sullivan et al.	D773,503 S	12/2016	Kim
D480,401 S	10/2003	Kahn et al.	D775,184 S	12/2016	Song et al.
6,876,971 B1	4/2005	Burke	D778,301 S	2/2017	Toda
6,876,978 B1	4/2005	Walker et al.	D782,504 S *	3/2017	Lee D14/485
6,912,509 B1	6/2005	Lear	D785,022 S	4/2017	Vazquez et al.
6,941,279 B1	9/2005	Sullivan	D785,640 S	5/2017	Cruttenden et al.
7,028,827 B1	4/2006	Molbak et al.	D786,896 S	5/2017	Kim et al.
7,264,153 B1	9/2007	Burke	D789,956 S	6/2017	Ortega et al.
D570,361 S	6/2008	Lam et al.	D789,968 S	6/2017	Mensingher et al.
D577,364 S	9/2008	Flynt et al.	D792,890 S	7/2017	Cruttenden et al.
7,502,758 B2	3/2009	Burke	9,734,536 B2	8/2017	Cruttenden et al.
7,571,849 B2	8/2009	Burke	9,747,597 B2	8/2017	Wu
7,574,403 B2	8/2009	Webb et al.	D799,540 S	10/2017	Eder
D600,703 S	9/2009	LaManna et al.	D800,171 S	10/2017	Hemsley
D610,161 S	2/2010	Matas	D801,378 S	10/2017	Sachtleben et al.
7,765,147 B2	7/2010	Khoury	D802,607 S	11/2017	Apodaca et al.
7,831,494 B2	11/2010	Sloan et al.	9,830,648 B2	11/2017	Kanjlia et al.
D636,398 S *	4/2011	Matas D14/486	D804,522 S	12/2017	Sachtleben et al.
8,025,217 B2	9/2011	Burke	9,836,736 B1	12/2017	Neale et al.
D652,048 S	1/2012	Joseph	9,842,321 B2	12/2017	Johnston et al.
D652,053 S	1/2012	Impas et al.	D806,735 S	1/2018	Olsen et al.
8,195,576 B1	6/2012	Grigg et al.	D808,403 S *	1/2018	Capela D14/486
8,234,188 B1	7/2012	Phillips et al.	D809,545 S	2/2018	Ban et al.
D665,407 S	8/2012	Bitran et al.	D811,426 S	2/2018	Trahan et al.
8,255,329 B1	8/2012	Barth et al.	D812,087 S	3/2018	Zimmerman et al.
8,301,530 B2	10/2012	Carretta et al.	D814,483 S	4/2018	Gavaskar et al.
8,370,243 B1	2/2013	Cernyar	D815,119 S	4/2018	Chalker et al.
D677,274 S	3/2013	Phelan	D815,121 S	4/2018	Cruttenden et al.
D677,326 S	3/2013	Gleasant et al.	D818,480 S	5/2018	Ricky et al.
D680,128 S	4/2013	Seo	D821,424 S	6/2018	Von Reden
8,416,924 B1	4/2013	Barth et al.	9,990,642 B2	6/2018	Strock et al.
D682,311 S	5/2013	Voreis et al.	D822,034 S	7/2018	Clymer et al.
D694,252 S	11/2013	Helm	D830,376 S *	10/2018	Naghdy D14/485
D694,253 S	11/2013	Helm	D831,681 S	10/2018	Eilertsen
8,583,515 B2	11/2013	Sorbe et al.	D831,687 S	10/2018	Varshavskaya et al.
D695,766 S	12/2013	Tagliabue et al.	10,097,663 B1	10/2018	Ferenczi et al.
D696,268 S	12/2013	Hyunjung et al.	D832,863 S	11/2018	Cruttenden et al.
D696,273 S	12/2013	Tagliabue et al.	D834,595 S	11/2018	Cruttenden et al.
D696,275 S	12/2013	Tagliabue et al.	D835,658 S	12/2018	Chan et al.
8,732,089 B1	5/2014	Fang et al.	10,157,420 B2	12/2018	Narayana et al.
8,781,906 B2	7/2014	Cruttenden et al.	D837,235 S	1/2019	Meng
8,791,949 B1	7/2014	Mackrell et al.	D837,240 S	1/2019	Van Tricht
D714,327 S	9/2014	Wood	D838,278 S	1/2019	McGlasson et al.
D715,833 S	10/2014	Rebstock	D838,289 S	1/2019	Stray et al.
D716,344 S	10/2014	Anzures	D839,880 S	2/2019	Dudey
D716,820 S	11/2014	Wood	D840,420 S	2/2019	Chalker et al.
D720,765 S	1/2015	Xie et al.	D841,024 S	2/2019	Clediere et al.
D722,075 S	2/2015	Zhang et al.	D841,044 S	2/2019	van den Berg et al.
D723,580 S	3/2015	Yoon et al.	D841,047 S	2/2019	Papolu et al.
D725,664 S	3/2015	Nies et al.	D847,169 S	4/2019	Sombreiro et al.
D727,941 S	4/2015	Angelides	D849,770 S	5/2019	Matas
D727,958 S	4/2015	Ray et al.	D850,481 S *	6/2019	Huh D14/486
D732,562 S	6/2015	Yan et al.	D851,117 S	6/2019	Kuklinski
D735,228 S	7/2015	Lim	D852,216 S	6/2019	Westerhold et al.
D736,808 S	8/2015	Soegiono et al.	D853,412 S	7/2019	Hofner et al.
D744,501 S	12/2015	Wilberding et al.	D853,413 S	7/2019	Hofner et al.
D744,520 S	12/2015	McLaughlin et al.	D855,633 S	8/2019	Wei et al.
D745,050 S	12/2015	Kwon	D855,634 S	8/2019	Kim
D747,351 S	1/2016	Lee	D855,641 S	8/2019	Lewis et al.
D747,726 S	1/2016	Virk et al.	D855,650 S	8/2019	Wesdorp-Jansen et al.
9,244,601 B2	1/2016	Kim et al.	D858,555 S	9/2019	Krishna
D751,568 S	3/2016	Kim et al.	D859,446 S *	9/2019	Westerhold D14/486
			10,410,243 B2	9/2019	Boal
			D861,705 S *	10/2019	Inose D14/485
			D864,230 S *	10/2019	Gupta D14/486
			D864,231 S *	10/2019	Gupta D14/486

(56)

References Cited

U.S. PATENT DOCUMENTS

D866,572 S *	11/2019	Sagrillo	D14/485	2007/0033134 A1	2/2007	Carretta et al.
D869,488 S	12/2019	Storr		2007/0034688 A1	2/2007	Burke
D870,129 S	12/2019	Bhardwaj et al.		2007/0043666 A1	2/2007	Burdette
D870,759 S	12/2019	Westerhold et al.		2007/0061252 A1	3/2007	Burke
D871,431 S	12/2019	Cullum et al.		2007/0094130 A1	4/2007	Burke
D871,432 S	12/2019	Robinson et al.		2007/0157105 A1 *	7/2007	Owens G06F 3/04842
D871,433 S	12/2019	Rondoni et al.				715/771
D872,739 S	1/2020	Clediere et al.		2007/0167219 A1	7/2007	Groz
D873,839 S	1/2020	Yan		2007/0294158 A1	12/2007	Patel et al.
D874,480 S	2/2020	Christie et al.		2008/0010201 A1	1/2008	Pratt et al.
D875,115 S	2/2020	Yan		2008/0065532 A1	3/2008	De La Motte
D875,743 S	2/2020	Cielak et al.		2008/0162377 A1	7/2008	Pinkas
D875,756 S *	2/2020	Feng	D14/486	2008/0249957 A1	10/2008	Masuyama et al.
D876,457 S	2/2020	Stoeckle et al.		2008/0255951 A1	10/2008	Miller et al.
D876,458 S	2/2020	Han et al.		2008/0288398 A1	11/2008	Maricondi
D876,462 S	2/2020	Li et al.		2009/0089104 A1	4/2009	Kondaks
D876,467 S	2/2020	Klein et al.		2009/0106161 A1	4/2009	Aleman
D877,162 S	3/2020	Hanson		2009/0150284 A1	6/2009	Burke
D879,126 S	3/2020	Wang et al.		2009/0150286 A1	6/2009	Barton
D879,803 S *	3/2020	Corona	D14/485	2009/0177564 A1	7/2009	Burke
D880,506 S	4/2020	Watson et al.		2009/0181777 A1	7/2009	Christiani et al.
D880,512 S	4/2020	Greenwald et al.		2009/0198625 A1	8/2009	Walker et al.
D880,521 S	4/2020	Dye et al.		2009/0204503 A1	8/2009	Hursta
D882,618 S	4/2020	Zhao		2009/0204528 A1	8/2009	Moses
D883,310 S	5/2020	Murphy et al.		2009/0215537 A1	8/2009	Poff
D883,321 S	5/2020	Clymer et al.		2009/0318220 A1	12/2009	Arezina et al.
D883,324 S	5/2020	Mollinga		2010/0005034 A1	1/2010	Carpenter et al.
D886,135 S *	6/2020	Cheng	D14/486	2010/0005035 A1	1/2010	Carpenter et al.
D886,137 S	6/2020	Kaminer et al.		2010/0121723 A1	5/2010	Miller et al.
D890,810 S *	7/2020	Smith	D14/489	2010/0124986 A1	5/2010	Van Luchene
D892,143 S	8/2020	Dascola et al.		2010/0250436 A1	9/2010	Loevenguth et al.
D892,148 S	8/2020	Silcock et al.		2011/0125637 A1	5/2011	Kalra et al.
D892,149 S	8/2020	Silcock et al.		2011/0137913 A1	6/2011	Bhatti et al.
D893,519 S *	8/2020	Aketa	D14/485	2011/0307318 A1	12/2011	LaPorte et al.
D894,206 S	8/2020	Naruns et al.		2012/0116992 A1	5/2012	Tuchman
D898,757 S	10/2020	Navasca		2012/0123849 A1	5/2012	Armstrong
D902,249 S *	11/2020	Lee	D14/492	2012/0173454 A1	7/2012	Shah et al.
D904,450 S *	12/2020	Jacoby	D14/488	2012/0231878 A1	9/2012	Angelo
D905,084 S	12/2020	Lindberg		2012/0233089 A1	9/2012	Calman et al.
10,872,341 B1	12/2020	Beckman et al.		2012/0233090 A1	9/2012	Tavares et al.
D910,663 S	2/2021	Clediere et al.		2012/0259762 A1	10/2012	Tarighat et al.
D911,372 S *	2/2021	Zhao	D14/486	2013/0013530 A1	1/2013	Nowacki
D911,375 S *	2/2021	Zhao	D14/486	2013/0111600 A1	5/2013	Guenther
D912,695 S *	3/2021	Zhao	D14/486	2013/0138577 A1	5/2013	Sisk
D913,304 S *	3/2021	VanDuyen	D14/486	2013/0166476 A1	6/2013	Samson
D914,039 S *	3/2021	Zimmerman	D14/485	2013/0187780 A1	7/2013	Angelides
D914,712 S *	3/2021	Cielak	D14/485	2013/0198108 A1	8/2013	Walia et al.
D914,721 S *	3/2021	Porter	D14/486	2013/0332388 A1	12/2013	Martell et al.
D914,726 S *	3/2021	Gouliard	D14/486	2014/0040121 A1	2/2014	Robb et al.
D915,418 S	4/2021	Osborne et al.		2014/0052594 A1	2/2014	Zimmer et al.
D915,434 S *	4/2021	Yurchenkov	D14/486	2014/0098030 A1	4/2014	Tang
2002/0042742 A1	4/2002	Glover et al.		2014/0180790 A1	6/2014	Boal
2002/0046124 A1	4/2002	Alderucci et al.		2014/0180793 A1	6/2014	Boal
2002/0052818 A1	5/2002	Loveland		2014/0180806 A1	6/2014	Boal
2002/0062272 A1	5/2002	Kim et al.		2014/0180826 A1	6/2014	Boal
2002/0123954 A1	9/2002	Hito		2014/0189608 A1	7/2014	Shuttleworth et al.
2002/0138383 A1	9/2002	Rhee		2014/0223313 A1	8/2014	Aebi
2002/0156722 A1	10/2002	Greenwood		2014/0223347 A1	8/2014	Seo et al.
2002/0198799 A1	12/2002	Burden		2014/0279185 A1	9/2014	Merz et al.
2003/0050889 A1	3/2003	Burke		2014/0281946 A1	9/2014	Avni et al.
2003/0074311 A1	4/2003	Saylors et al.		2014/0282222 A1	9/2014	Eim et al.
2003/0083930 A1	5/2003	Burke		2015/0066792 A1	3/2015	Sprague
2003/0093353 A1	5/2003	Ward et al.		2015/0067598 A1	3/2015	Yoo et al.
2003/0125108 A1	7/2003	Groz		2015/0081458 A1	3/2015	Cruttenden et al.
2003/0149629 A1	8/2003	Claridge et al.		2015/0120425 A1	4/2015	Caldwell
2003/0163404 A1	8/2003	Hu et al.		2015/0134509 A1	5/2015	Martin et al.
2003/0191711 A1	10/2003	Jamison et al.		2015/0339280 A1	11/2015	McLaughlin et al.
2003/0200163 A1	10/2003	O'Riordan et al.		2016/0012392 A1	1/2016	Paden et al.
2003/0225649 A1	12/2003	Simpson		2016/0124609 A1	5/2016	Covington et al.
2004/0222285 A1	11/2004	Pohl		2016/0259413 A1 *	9/2016	Anzures G06F 3/04842
2004/0243498 A1	12/2004	Duke		2016/0266724 A1	9/2016	Plumb-Larrick et al.
2005/0044038 A1	2/2005	Whiting et al.		2016/0321214 A1	11/2016	Hickey
2006/0036523 A1	2/2006	Stover et al.		2016/0335479 A1	11/2016	Bartlett, II et al.
2006/0047589 A1	3/2006	Grau		2017/0011406 A1	1/2017	Tunnell et al.
2007/0011089 A1	1/2007	DeSchryver		2017/0272249 A1	9/2017	Bhandarkar et al.
				2017/0345098 A1	11/2017	Cruttenden et al.
				2018/0227370 A1	8/2018	Robles et al.
				2018/0364665 A1	12/2018	Clymer et al.
				2019/0095064 A1 *	3/2019	Alexander G06F 3/0484

(56)

References Cited

U.S. PATENT DOCUMENTS

2019/0146639	A1	5/2019	Sarode et al.	
2019/0237189	A1	8/2019	Geller et al.	
2020/0077483	A1	3/2020	Agarwal et al.	
2020/0159871	A1*	5/2020	Bowen	G06K 9/6253
2020/0258176	A1	8/2020	Gibson et al.	
2020/0301575	A1	9/2020	Lindholm et al.	
2020/0304626	A1*	9/2020	Phillips	G06F 3/04883
2020/0393952	A1	12/2020	Hsiao	

OTHER PUBLICATIONS

“The Complete Guide to Account Aggregation.” *BlueLeaf*, (Jul. 24, 2014). <https://www.blueleaf.com/what-is-account-aggregation/>. Web. Accessed on Apr. 20, 2017. 10 pages.

Acorns App Wants to Invest Your Spare Change [online]. Direkt Concept., Jun. 18, 2014. 2 pages. [Retrieved on Mar. 15, 2016]. Retrieved from the Internet <<http://www.direktconcept.com/2014/06/18/acorns-app-wants-to-invest-spare-change/>>.

Acorns Is A Micro-Investment App That Does All the Thinking For You [online]. Techcrunch, Aug. 26, 2014. 6 pages. [Retrieved on Mar. 15, 2016]. Retrieved from the Internet <<http://techcrunch.com/2014/08/26/acorns-is-a-micro-investment-app-that-does-all-the-thinking-for-you/>>.

Acorns Review [online]. 148Apps, Oct. 6, 2014. 18 pages. [Retrieved on Mar. 15, 2016]. Retrieved from the Internet <<http://www.148apps.com/reviews/acorns-review-3/>>.

Martin, James A. Good Ol’ Piggy Bank Better for Saving Cash Than ‘Acorns’ Android, iOS Apps. *Dribbble*, Oct. 17, 2014. 5 pages. [Retrieved on Dec. 27, 2017]. Retrieved from the Internet <<https://www.cio.com/article/2834493/mobile-apps/good-ol-piggy-bank-better-for-saving-cash-than-acorns-android-ios-apps.html>> (Year: 2014). Newsweek: Cover story: ‘Technology: What You’ll Want Next’. (May 23, 1999). PR Newswire. 15 pages. Retrieved from <http://search.proquest.com/docview/449709031?accountid=14753>. Retrieved on Mar. 29, 2016.

Spaceboy88. “Hide/Remove songs from Followed Playlist.” [Online]. Spotify Community. Jul. 14, 2014. 6 pages. [Retrieved on Dec. 27, 2017]. Retrieved from the Internet <<https://community.spotify.com/t5/Closed-Ideas/Hide-Remove-songs-from-Followed-Playlist/idi-p/856303>> (Year: 2014).

Symons, A. (1998). “Making the connection through technology.” *Drug Store News*, 20(20), 57-57, 107+. 4 pages. Retrieved from <http://search.proquest.com/docview/204728199?accountid=14753>. Retrieved on Mar. 29, 2016.

Szathmary, Zoe. “Investing in the palm of your hand: New smartphone app Acorns automatically rounds users’ purchases to the next dollar so change can be put into a portfolio.” *The Daily Mail*, Sep. 9, 2014. 4 pages. [Retrieved on Dec. 27, 2017]. Retrieved from the Internet <<http://www.dailymail.co.uk/news/article-2749738/Investing-palm-hand-New-smartphone-app-Acorns-automatically-rounds-users-purchases-dollar-change-portfolio.html>> (Year: 2014).

The Banker. “Check Out This Acorns Thing.” *Bankers Anonymous*, Jun. 14, 2016. 6 pages. [Retrieved on Dec. 27, 2017]. Retrieved from the Internet <<http://www.bankers-anonymous.com/blog/check-out-this-acorns-thing/>> (Year: 2016).

Acorns—Invest, Earn, Grow, Spend, Later, acorns.com [online], available by Sep. 4, 2014 as verified by Wayback Machine®,

[retrieved on Feb. 10, 2021], retrieved from the Internet <URL: <https://web.archive.org/web/20140904101831/https://www.acorns.com/>> (Year: 2014). 5 pages.

Acorns App Makes You a Better Saver, by Bozzo, smartphone.gadgethacks.com [online], published on Oct. 14, 2014, [retrieved on Feb. 11, 2021], retrieved from the Internet <URL: <https://smartphones.gadgethacks.com/how-to/acorns-app-makes-you-better-saver-without-you-even-noticing-0157807/>> (Year: 2014). 1 page.

“Robinhood.com” Robinhood.com, 2014. Web Aug. 23, 2016. 5 pages. <<<https://www.robinhood.com/>>>.

Constine, Josh. ‘Robinhood Raises \$13M to Democratize Stock Market With Zero-Commission Trading App’. techcrunch.com [online]. Sep. 23, 2014 [retrieved Aug. 25, 2016]. 11 pages. Retrieved from the Internet: <URL: <https://techcrunch.com/2014/09/23/robinhood-stock-app/>>.

Specification filed Mar. 20, 2000 in U.S. Appl. No. 09/531,412, related application data for U.S. Pat. No. 7,574,403 (Year: 2000). 69 pages.

Frank, Blair. “App of the Week: Acorns invests the spare change from your everyday purchases.” *GeekWire*, published Feb. 4, 2015 (Retrieved from the Internet Jun. 1, 2020). Internet URL: <<https://www.geekwire.com/2015/app-week-acorns-invests-spare-change-everyday-purchases/>> (Year: 2015). 1 page.

International Search Report and Written Opinion issued in International Application No. PCT/US18/64100, dated Feb. 21, 2019. 14 pages.

Ping, Jonathan. “Acorns App Review: Auto-Invest Your Spare Change, Now Free for Students.” *My Money Blog*, published Mar. 4, 2016 (Retrieved from the Internet Jun. 1, 2020). Internet URL: <<https://web.archive.org/web/20160304165939/https://www.mynoneyblog.com/acorns-app-review.html>> (Year: 2016). 2 pages.

Remote Control Relay, apkpure.com [online], published on Jan. 20, 2016, [retrieved on Oct. 21, 2020], retrieved from the Internet <URL: <https://apkpure.com/rennote-control-relay/conn.androidreann.rennotecontrolrelay/>> (Year: 2016). 2 pages.

Revell, Jonathan. “Acorns: Just nuts, or a good investment?” *The Blog of Jonathan Revell*, published Sep. 4, 2014 (Retrieved from the Internet Jun. 1, 2020). Internet URL: <<https://blog.jonathanrevell.com/acorns-just-nuts-or-a-good-investment/>> (Year: 2014). 2 pages.

Sheridan, Trevor. ‘App Of The Day: Nice Weather 2—A Sunny Overview Of The Weather. appenapps.com [online]. Oct. 28, 2013 [retrieved Aug. 25, 2016]. 4 pages. Retrieved from the Internet: <URL: <http://appenapps.com/app-pick/app-of-the-day-nice-weather-2-a-sunny-overview-of-the-weather.html>>.

Yogesh. “Creating a line slider on a graph in android.” *Stack Overflow*, published Apr. 20, 2015 (Retrieved from the Internet Jun. 2, 2020). Internet URL: <<https://stackoverflow.com/questions/29743092/creating-a-line-slider-on-a-graph-in-android>> (Year: 2015). 1 page.

Duncan, Shelli. “Planting Acorns: When It Comes to Investing, Small Steps Can Yield Big Rewards.” *Modern hygienist* 3.9 (2007): 44-. Print. (Year: 2007) 5 pages.

Golio, Mike. “Live Below Your Means (LBYM),” in *Engineering Your Retirement: Retirement Planning for Technology Professionals*, IEEE, 2006, pp. 45-69, doi: 10.1002/9780470112472.ch3. (Year: 2006).

Golio, Mike. “Your Investment Plan,” in *Engineering Your Retirement: Retirement Planning for Technology Professionals*, IEEE, 2006, pp. 115-148, doi: 10.1002/9780470112472.ch6. (Year: 2006).

* cited by examiner

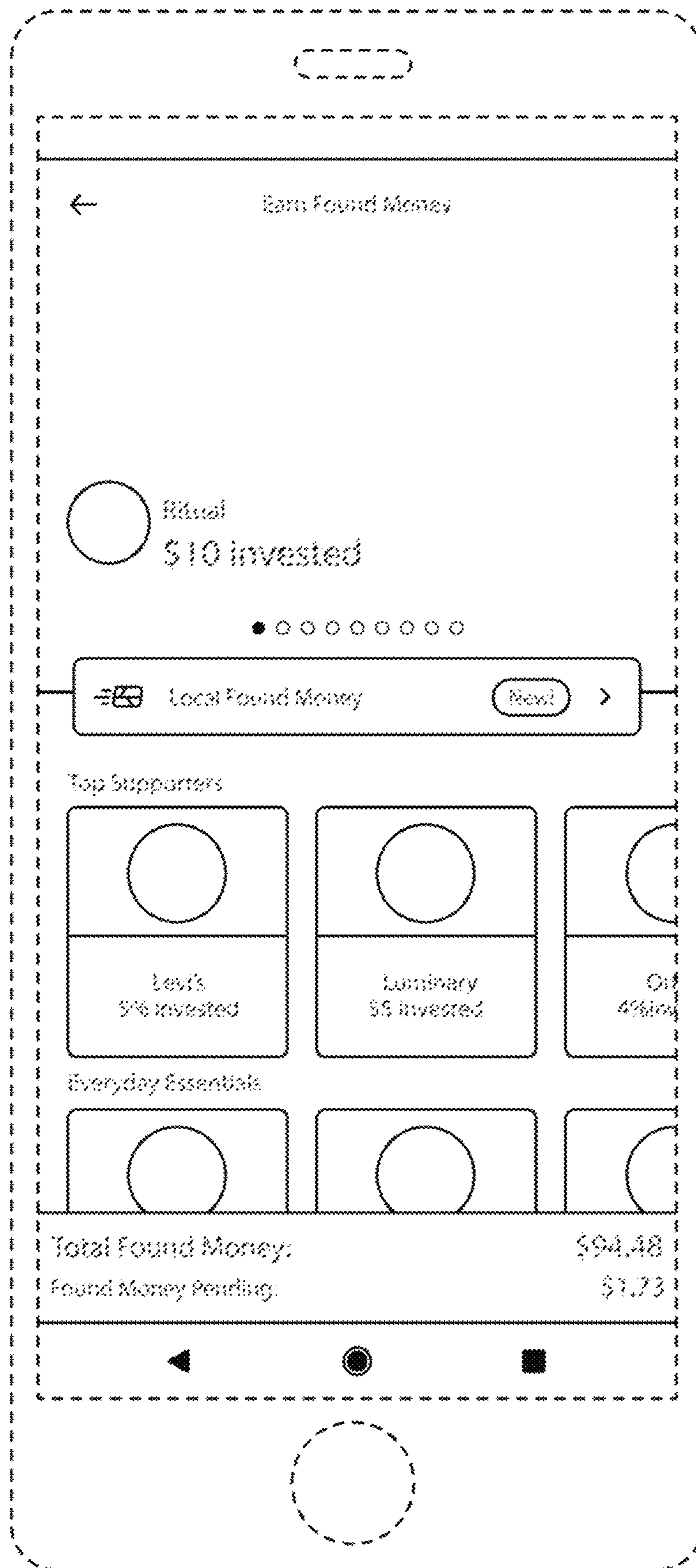


FIG. 1



FIG. 2

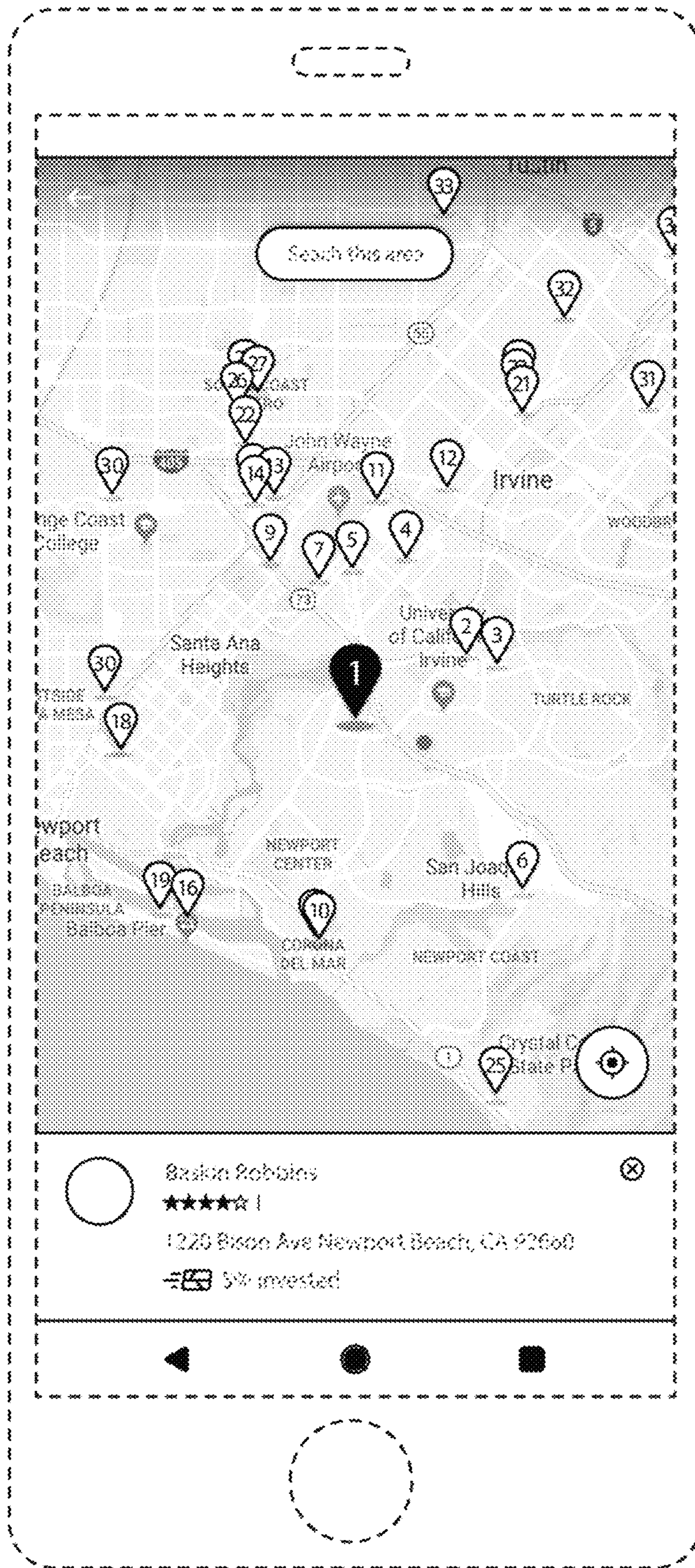


FIG. 3



FIG. 4