



US00D902221S

(12) **United States Design Patent** (10) **Patent No.:** **US D902,221 S**
Barlier et al. (45) **Date of Patent:** **** Nov. 17, 2020**

(54) **ELECTRONIC DEVICE WITH ANIMATED GRAPHICAL USER INTERFACE**
(71) Applicant: **Apple Inc.**, Cupertino, CA (US)
(72) Inventors: **Guillaume P. Barlier**, San Mateo, CA (US); **Alan C. Dye**, San Francisco, CA (US); **Lisa K. Forssell**, Palo Alto, CA (US); **Joseph D. Gardner**, San Francisco, CA (US); **Aurelio Guzmán**, San Jose, CA (US); **Jason D. Rickwald**, Santa Cruz, CA (US); **Christopher J. Romney**, San Francisco, CA (US); **Nicolas V. Scapel**, Sunnyvale, CA (US); **Christopher I. Wilson**, San Francisco, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

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

(21) Appl. No.: **29/679,147**

(22) Filed: **Feb. 1, 2019**

(51) **LOC (12) Cl.** **14-04**

(52) **U.S. Cl.**
USPC **D14/485**; D14/494

(58) **Field of Classification Search**
USPC D14/485-495; D5/20, 26, 30, 40, 63-65;
D20/10, 11, 22-33, 39, 40
CPC G06F 3/048-04897; G06F 1/1692; G06F
3/16; G06F 3/165; G06F 3/167; H04M
1/72558; H04L 12/581; H04L 12/1813;
H04L 29/06421

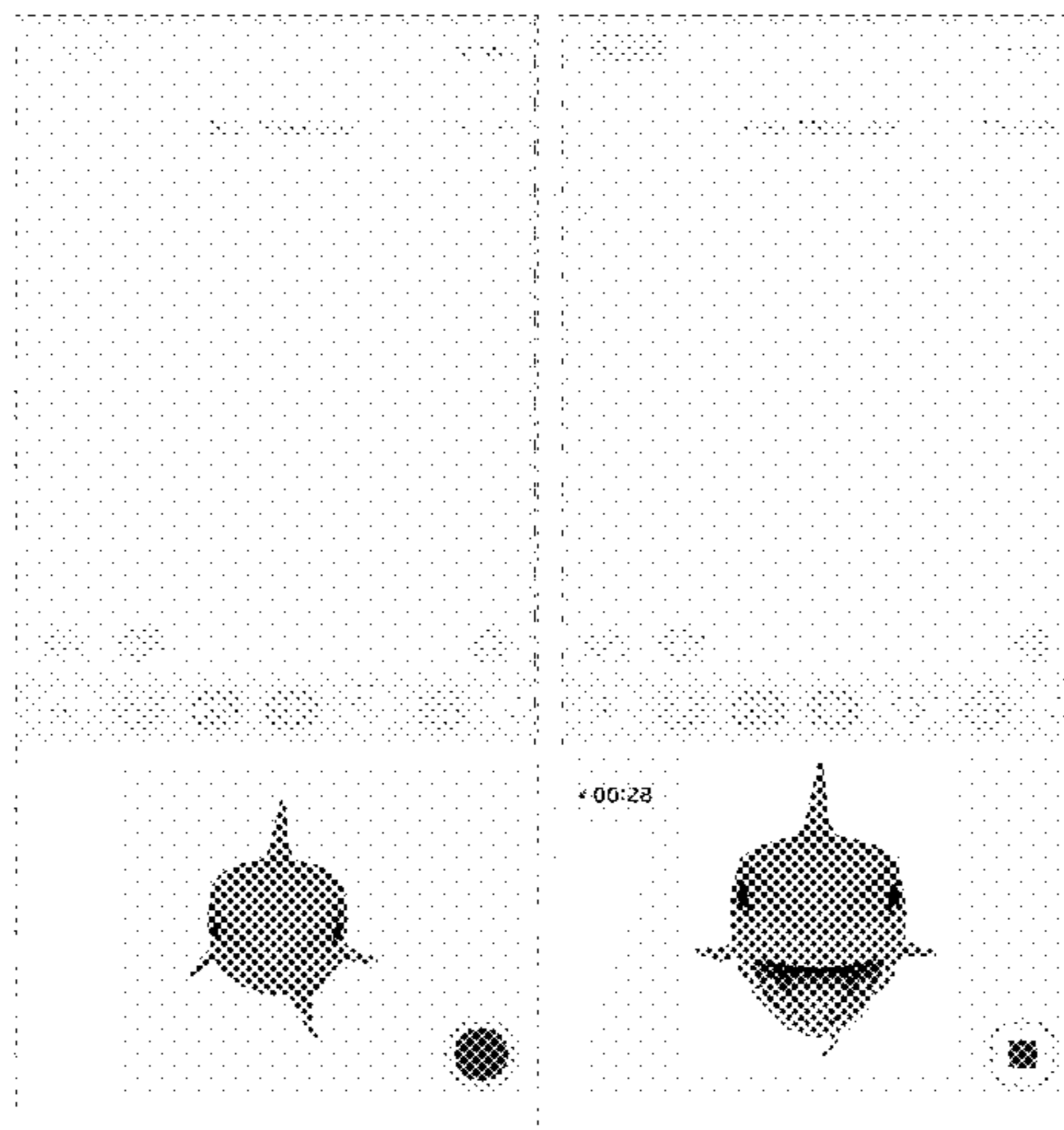
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D3,139 S 7/1868 Mumford
D3,207 S 9/1868 Hasenclever
D32,183 S 1/1900 Tuchfarber
842,690 A 1/1907 Oswalt
1,547,658 A 7/1925 Kunze
D112,756 S 12/1938 Marshall

D137,874 S 5/1943 Partridge
2,328,941 A 9/1943 Anderson
D153,568 S 4/1949 Wagner
2,751,441 A 6/1956 Olson et al.
3,027,423 A 3/1962 Reinthaler
3,383,476 A 5/1968 Morgan
4,162,461 A 7/1979 Wallis et al.
D262,460 S 12/1981 Belhumeur
D277,109 S 1/1985 Gordon
D277,113 S 1/1985 Gordon
D298,144 S 10/1988 Wells-Papanek et al.
D300,835 S 4/1989 Stevens
D304,348 S 10/1989 Dunn
D316,570 S 4/1991 Golden
D327,507 S 6/1992 Wahl
D341,848 S 11/1993 Bigelow et al.
D342,283 S 12/1993 McGill
5,345,552 A 9/1994 Brown
D353,843 S 12/1994 Martin
D368,283 S 3/1996 van der Ploeg
D373,387 S 9/1996 Wu
5,673,401 A 9/1997 Volk et al.
D386,447 S 11/1997 Thomas
D386,476 S 11/1997 Thomas
D386,487 S 11/1997 Thomas
5,687,331 A 11/1997 Volk et al.
D391,991 S 3/1998 Conner
D395,643 S 6/1998 Ryan
D396,225 S 7/1998 Ryan
5,878,274 A 3/1999 Kono et al.
5,936,624 A 8/1999 Lisle et al.
5,966,126 A 10/1999 Szabo
5,991,799 A 11/1999 Yen et al.
5,995,093 A 11/1999 Lambourne et al.
D418,123 S 12/1999 Koerner
6,014,142 A 1/2000 Lahood
6,020,885 A 2/2000 Honda
D421,430 S 3/2000 Saxena et al.
D421,749 S 3/2000 Saxena et al.
D423,591 S 4/2000 Conley et al.
6,061,457 A 5/2000 Stockhamer
D428,614 S 7/2000 Hwang et al.
6,104,396 A 8/2000 Hanaoka et al.
6,128,010 A 10/2000 Baxter et al.
D437,342 S 2/2001 Kramer et al.
6,219,045 B1 4/2001 Leahy et al.
6,246,411 B1 6/2001 Strauss
6,262,724 B1 7/2001 Crow et al.
D450,059 S 11/2001 Ltou
D450,711 S 11/2001 Istvan et al.
6,388,669 B2 5/2002 Minami et al.
D462,076 S 8/2002 Robbin et al.
D469,129 S 1/2003 Fabel



US D902,221 S

Page 2

6,512,525 B1	1/2003	Capps et al.	D569,383 S	5/2008	Jung et al.
D471,225 S	3/2003	Gray	D569,875 S	5/2008	Fletcher et al.
D471,226 S	3/2003	Gray	7,370,283 B2	5/2008	Othmer
D471,227 S	3/2003	Gray	D570,369 S	6/2008	Fletcher
D471,239 S	3/2003	Schaller	D572,720 S	7/2008	Fletcher
D472,244 S	3/2003	Wasko	D574,391 S	8/2008	Kwag
6,556,222 B1	4/2003	Narayanaswami	D574,842 S	8/2008	Kwag et al.
D474,197 S	5/2003	Nguyen	D574,846 S	8/2008	O'Donnell et al.
6,577,330 B1	6/2003	Tsuda et al.	7,409,059 B2	8/2008	Fujisawa
D479,659 S	9/2003	Fleckenstein et al.	D576,176 S	9/2008	Jong et al.
D481,736 S	11/2003	Ombao et al.	D577,364 S	9/2008	Flynt et al.
6,678,891 B1	1/2004	Wilcox et al.	D579,456 S	10/2008	Chen et al.
6,731,316 B2	5/2004	Herigstad et al.	7,434,168 B2	10/2008	Hachiya et al.
D493,493 S	7/2004	Howard	7,434,176 B1	10/2008	Froloff
D494,326 S	8/2004	Long	7,437,378 B2	10/2008	Minium et al.
D496,667 S	9/2004	Hoglund	D579,946 S	11/2008	Lee et al.
6,809,724 B1	10/2004	Shiraishi et al.	D579,947 S	11/2008	Kim et al.
6,816,870 B1	11/2004	Nishimura et al.	D580,942 S	11/2008	Oshiro et al.
6,819,338 B2	11/2004	Heasman et al.	D580,949 S	11/2008	Duarte
6,907,580 B2	6/2005	Michelman et al.	D581,424 S	11/2008	Hong
6,941,359 B1	9/2005	Beaudoin et al.	7,458,030 B2	11/2008	Kim et al.
6,972,363 B2	12/2005	Georges et al.	D582,427 S	12/2008	Neuhaus
D516,546 S	3/2006	Sobol	D582,931 S	12/2008	Blankenship et al.
7,010,758 B2	3/2006	Bate	D582,935 S	12/2008	Lee et al.
D520,556 S	5/2006	Lusher et al.	D582,940 S	12/2008	Carpenter et al.
D521,017 S	5/2006	Jewitt et al.	D583,386 S	12/2008	Tomizawa et al.
D523,439 S	6/2006	Kuroda	7,478,047 B2	1/2009	Loyall et al.
D523,442 S	6/2006	Hiramatsu	7,493,571 B2	2/2009	Shinohara et al.
D524,358 S	7/2006	Lusher et al.	D587,720 S	3/2009	Noviello et al.
7,080,328 B1	7/2006	Sawyer	D587,726 S	3/2009	Tarara et al.
D525,981 S	8/2006	Hally et al.	D588,149 S	3/2009	Brownell et al.
D525,982 S	8/2006	Suzuki	D588,151 S	3/2009	Okada
D527,736 S	9/2006	McDougall et al.	D589,522 S	3/2009	Jewitt et al.
D529,484 S	10/2006	Probst	7,512,886 B1	3/2009	Herberger et al.
7,124,360 B1	10/2006	Drenttel et al.	D589,792 S	4/2009	Clabough et al.
7,152,210 B1	12/2006	Van Den Hoven et al.	D590,416 S	4/2009	Kochackis
D536,346 S	2/2007	Gusmorino et al.	D592,675 S	5/2009	Bhat et al.
D537,449 S	2/2007	Hoefnagels et al.	7,536,653 B2	5/2009	Badovinac et al.
D539,810 S	4/2007	Cummins	7,539,933 B2	5/2009	Brown et al.
D542,302 S	5/2007	Muranaka et al.	D594,015 S	6/2009	Singh et al.
D543,986 S	6/2007	Rimas-Ribikauskas et al.	D594,465 S	6/2009	Hong et al.
D543,987 S	6/2007	Rimas-Ribikauskas et al.	7,546,546 B2	6/2009	Lewis-Bowen et al.
D543,992 S	6/2007	Vigesaa	D597,101 S	7/2009	Chaudhri et al.
D544,493 S	6/2007	Lam et al.	7,561,169 B2	7/2009	Carroll
D544,875 S	6/2007	Wang et al.	D598,027 S	8/2009	Carpenter et al.
D546,334 S	7/2007	Seo et al.	7,581,195 B2	8/2009	Sciammarella et al.
D547,320 S	7/2007	Kim et al.	D599,362 S	9/2009	Danton
D547,321 S	7/2007	Viegers et al.	D599,368 S	9/2009	Kanga et al.
D547,365 S	7/2007	Reyes et al.	D599,807 S	9/2009	Marashi
D549,712 S	8/2007	Kim et al.	D599,812 S	9/2009	Hirsch
D550,685 S	9/2007	Seo et al.	D600,712 S	9/2009	LaMarma et al.
D551,241 S	9/2007	Seo et al.	D600,713 S	9/2009	LaMarma et al.
D551,243 S	9/2007	Young	D601,164 S	9/2009	Pell et al.
D552,120 S	10/2007	Arai	7,587,482 B2	9/2009	Henderson et al.
D552,623 S	10/2007	Vong et al.	7,587,680 B2	9/2009	Wada
D553,635 S	10/2007	Blencowe	D603,867 S	11/2009	La et al.
D553,638 S	10/2007	Kim et al.	D604,274 S	11/2009	Durrett et al.
D554,140 S	10/2007	Armendariz	D604,305 S	11/2009	Anzures et al.
D554,656 S	11/2007	Seo et al.	D604,740 S	11/2009	Matheny et al.
D554,662 S	11/2007	Hoover et al.	D607,003 S	12/2009	Bull et al.
D555,661 S	11/2007	Kim	D607,008 S	12/2009	Kocmick
D556,765 S	12/2007	Evans et al.	D607,010 S	12/2009	Kocmick
D557,274 S	12/2007	Mar et al.	7,631,267 B2	12/2009	Viji et al.
D557,275 S	12/2007	De Mar et al.	D607,464 S	1/2010	Tang et al.
D559,261 S	1/2008	Jung et al.	D607,888 S	1/2010	Ahn
7,315,984 B2	1/2008	Crow et al.	D608,366 S	1/2010	Matas
D561,196 S	2/2008	Okaro et al.	7,650,169 B2	1/2010	Seo et al.
D562,343 S	2/2008	Fletcher	D609,244 S	2/2010	Seo
D563,423 S	3/2008	Suzuki	D610,159 S	2/2010	Matheny et al.
D563,970 S	3/2008	Jun et al.	D611,484 S	3/2010	Mays et al.
D563,993 S	3/2008	Melander et al.	D611,485 S	3/2010	Marashi
D564,530 S	3/2008	Kim et al.	D611,950 S	3/2010	Fletcher et al.
D565,584 S	4/2008	Gunn et al.	D612,390 S	3/2010	Kim et al.
D565,586 S	4/2008	Shin et al.	D612,398 S	3/2010	Lemay
D566,720 S	4/2008	Kwon et al.	D612,399 S	3/2010	Fletcher et al.
D566,773 S	4/2008	Delmotte et al.	D613,301 S	4/2010	Lee et al.
7,359,688 B2	4/2008	Seo et al.	D614,637 S	4/2010	Mizulo
7,363,591 B2	4/2008	Goldthwaite et al.	D614,640 S	4/2010	Viegers et al.
D568,898 S	5/2008	Byeon	D614,641 S	4/2010	Viegers et al.

US D902,221 S

7,698,656 B2	4/2010	Srivastava	D649,154 S	11/2011	Vance et al.
D615,549 S	5/2010	Caine et al.	D649,155 S	11/2011	van Os
D616,891 S	6/2010	Christie et al.	D649,158 S	11/2011	Lemay
D616,892 S	6/2010	Christie et al.	8,058,571 B2	11/2011	Rajagopal et al.
D617,334 S	6/2010	Chaudhri	D650,392 S	12/2011	Glezer et al.
D617,804 S	6/2010	Hirsch	D650,796 S	12/2011	Rincover et al.
D617,807 S	6/2010	Christie et al.	D650,797 S	12/2011	Jang et al.
D617,809 S	6/2010	Kim et al.	D650,863 S	12/2011	Fiero
D618,248 S	6/2010	Anzures et al.	D651,610 S	1/2012	Anzures
D618,249 S	6/2010	Ahn et al.	D652,049 S	1/2012	Chou et al.
D618,698 S	6/2010	Kang et al.	D652,053 S	1/2012	Impas et al.
D618,702 S	6/2010	Lee	D652,424 S	1/2012	Cahill et al.
D619,593 S	7/2010	Fujioka et al.	D652,428 S	1/2012	Anzures
D619,601 S	7/2010	Matas	D654,925 S	2/2012	Nishizawa et al.
D619,616 S	7/2010	Esterly et al.	D654,926 S	2/2012	Lipman et al.
D620,496 S	7/2010	Matas	D655,299 S	3/2012	Shallcross et al.
D621,844 S	8/2010	Vanos	D655,719 S	3/2012	Zaman et al.
D621,845 S	8/2010	Anzures et al.	8,130,219 B2	3/2012	Fleury et al.
D621,848 S	8/2010	Ording	8,145,766 B2	3/2012	Durnitru et al.
7,774,718 B2	8/2010	Finke-Anlauff et al.	D656,951 S	4/2012	Weir et al.
D623,194 S	9/2010	Cook et al.	D657,377 S	4/2012	Vance et al.
D623,195 S	9/2010	La et al.	D658,195 S	4/2012	Cranfill
D623,695 S	9/2010	Tesnar et al.	D658,198 S	4/2012	Gleasman et al.
D624,407 S	9/2010	Straker	D658,667 S	5/2012	Cho et al.
D624,555 S	9/2010	Anzures	D658,679 S	5/2012	Davydov et al.
D624,556 S	9/2010	Chaudhri	D659,706 S	5/2012	David et al.
7,793,232 B2	9/2010	Chaudhri et al.	D660,317 S	5/2012	Jesberger
7,805,684 B2	9/2010	Arvilommi	8,171,084 B2	5/2012	Walter et al.
D625,320 S	10/2010	Woods et al.	D661,123 S	6/2012	Curbbun et al.
D625,321 S	10/2010	Choi et al.	D661,312 S	6/2012	Vance et al.
D625,322 S	10/2010	Guntaur et al.	D662,512 S	6/2012	Steele et al.
D625,733 S	10/2010	Anzures	D662,554 S	6/2012	Pardey
D626,131 S	10/2010	Kruzeniski et al.	D663,737 S	7/2012	Sullivan
D626,136 S	10/2010	Fujimura	D664,555 S	7/2012	Gleasman et al.
D626,140 S	10/2010	Mclaughlin et al.	D664,987 S	8/2012	Gleasman et al.
7,820,901 B2	10/2010	Terauchi et al.	D665,851 S	8/2012	Davis
7,823,080 B2	10/2010	Miyajima et al.	D666,209 S	8/2012	Cranfill
D627,362 S	11/2010	Christie et al.	8,255,810 B2	8/2012	Moore et al.
D627,791 S	11/2010	Lamb et al.	D666,631 S	9/2012	Ma et al.
7,844,913 B2	11/2010	Amano et al.	D667,019 S	9/2012	Chaudhri
D628,584 S	12/2010	Umezawa	D667,460 S	9/2012	Wujcik et al.
D629,419 S	12/2010	Ording et al.	D667,834 S	9/2012	Coffman et al.
7,861,180 B2	12/2010	Liu et al.	D667,840 S	9/2012	Anzures
7,864,163 B2	1/2011	Ording et al.	8,261,231 B1	9/2012	Hirsch et al.
7,877,705 B2	1/2011	Chambers et al.	D668,260 S	10/2012	Arnold et al.
D631,888 S	2/2011	Vance et al.	D668,263 S	10/2012	Jobs et al.
D633,508 S	3/2011	Chou et al.	D668,673 S	10/2012	Molino et al.
D633,563 S	3/2011	Hill et al.	D668,674 S	10/2012	Suarez
D634,752 S	3/2011	Mclaughlin et al.	D669,487 S	10/2012	Yang et al.
D635,988 S	4/2011	Mays	D670,722 S	11/2012	Yang et al.
D636,400 S	4/2011	Vance et al.	D670,726 S	11/2012	Bitran et al.
D636,405 S	4/2011	Mays et al.	D670,736 S	11/2012	Phelan
D637,201 S	5/2011	Wasko	D671,557 S	11/2012	Peters et al.
D638,441 S	5/2011	Ording et al.	D671,558 S	11/2012	Anzures et al.
D638,442 S	5/2011	Christie et al.	D671,956 S	12/2012	Dellinger et al.
D638,842 S	5/2011	Woods et al.	D672,363 S	12/2012	Reyna et al.
7,945,862 B2	5/2011	Aldrich et al.	D672,366 S	12/2012	Duggan et al.
D640,274 S	6/2011	Arnold	D673,167 S	12/2012	Woo et al.
7,956,845 B2	6/2011	Lee	D673,973 S	1/2013	Vance et al.
D641,762 S	7/2011	Matas	D674,405 S	1/2013	Guastella et al.
D642,184 S	7/2011	Brouwers et al.	D675,648 S	2/2013	Self et al.
D642,192 S	7/2011	Arnold	D676,058 S	2/2013	Cranfill
7,984,376 B2	7/2011	Yamabuchi et al.	D676,866 S	2/2013	Chaudhri
D643,436 S	8/2011	Lemay	D676,868 S	2/2013	Wagner
D643,437 S	8/2011	Chaudhri	D677,326 S	3/2013	Gleasman et al.
D643,438 S	8/2011	Gardner et al.	D677,336 S	3/2013	Murphy et al.
D643,848 S	8/2011	Jones et al.	D677,688 S	3/2013	Woo
D643,853 S	8/2011	Matas	D677,690 S	3/2013	Phelan
D644,238 S	8/2011	Ording	D677,694 S	3/2013	Park et al.
D644,240 S	8/2011	Arnold et al.	D677,695 S	3/2013	Park et al.
D644,662 S	9/2011	Gardner et al.	D677,696 S	3/2013	Park et al.
D646,297 S	10/2011	Mclaughlin et al.	D677,697 S	3/2013	Park et al.
D648,344 S	11/2011	Arnold	D678,317 S	3/2013	Lee et al.
D648,346 S	11/2011	Anzures	D678,324 S	3/2013	Park et al.
D648,347 S	11/2011	Chaudhri	D678,325 S	3/2013	Park et al.
D648,348 S	11/2011	Matas	D678,902 S	3/2013	Evans
D648,732 S	11/2011	Chou et al.	D679,721 S	4/2013	Seo
D648,733 S	11/2011	Chou et al.	D680,126 S	4/2013	Seo
D648,735 S	11/2011	Arnold et al.	D680,129 S	4/2013	Seo et al.

US D902,221 S

Page 4

D682,309 S	5/2013	Steele et al.	D711,921 S	8/2014	Penico et al.
D682,313 S	5/2013	Voreis et al.	D712,908 S	9/2014	Rodenhouse et al.
D682,882 S	5/2013	Cahill	D713,417 S	9/2014	Daniel
D683,354 S	5/2013	Perry et al.	D714,340 S	9/2014	Mason
D683,362 S	5/2013	Graham et al.	8,823,654 B2	9/2014	Jeong et al.
8,447,361 B1	5/2013	Andrus et al.	8,839,106 B2	9/2014	Lee et al.
8,453,057 B2	5/2013	Stallings et al.	D714,812 S	10/2014	Kim et al.
D683,737 S	6/2013	Brinda et al.	D714,815 S	10/2014	Fargher et al.
D684,179 S	6/2013	Carpenter et al.	D715,313 S	10/2014	Hontz, Jr.
D684,987 S	6/2013	Christie et al.	D715,315 S	10/2014	Wood
D685,385 S	7/2013	Seo	D715,811 S	10/2014	Tsukamoto
D686,241 S	7/2013	Steele et al.	D715,821 S	10/2014	Varon et al.
D686,242 S	7/2013	Gabouer et al.	D715,826 S	10/2014	Sakuma
D686,637 S	7/2013	Anzures	D716,336 S	10/2014	Guss et al.
D687,452 S	8/2013	Anzures et al.	8,860,749 B1	10/2014	Ainslie et al.
D687,462 S	8/2013	Anzures	8,862,620 B2	10/2014	Klein
D687,854 S	8/2013	Nelson et al.	8,866,776 B2	10/2014	Yamanaka et al.
D688,694 S	8/2013	Simmons et al.	D716,840 S	11/2014	Gurley
8,510,407 B1	8/2013	Kembel et al.	D717,334 S	11/2014	Sakuma
8,521,857 B2	8/2013	Maxwell et al.	D717,338 S	11/2014	Anzures et al.
D689,516 S	9/2013	Convay et al.	D717,811 S	11/2014	Allredge et al.
D689,874 S	9/2013	Brinda et al.	D717,822 S	11/2014	Brotman et al.
D691,156 S	10/2013	AeJung	D717,823 S	11/2014	Brotman et al.
D691,160 S	10/2013	Schupp et al.	D718,317 S	11/2014	Yang et al.
D691,174 S	10/2013	Lipman et al.	D718,320 S	11/2014	Charles et al.
D691,623 S	10/2013	Aroner et al.	D718,321 S	11/2014	Charles et al.
D692,910 S	11/2013	Anzures et al.	D718,334 S	11/2014	Cranfill
D692,915 S	11/2013	Brinda et al.	D718,783 S	12/2014	Inose et al.
D694,254 S	11/2013	Brinda et al.	D719,187 S	12/2014	Arnold et al.
D694,771 S	12/2013	Edwards et al.	D719,461 S	12/2014	Bailey
D694,775 S	12/2013	Gardner et al.	D719,581 S	12/2014	Frew et al.
D695,775 S	12/2013	Brinda et al.	D719,965 S	12/2014	Taingtae et al.
D695,779 S	12/2013	Edwards et al.	D720,366 S	12/2014	Hiltunen et al.
D696,265 S	12/2013	D'Amore et al.	8,909,667 B2	12/2014	Svendsen
D696,272 S	12/2013	Tagliabue et al.	8,918,736 B2	12/2014	Jobs et al.
D696,676 S	12/2013	Seo	D721,380 S	1/2015	Pereira
D697,940 S	1/2014	Bitran et al.	D721,381 S	1/2015	Pereira
D698,806 S	2/2014	Funabashi et al.	D721,382 S	1/2015	Brinda et al.
D699,252 S	2/2014	Tagliabue et al.	D721,722 S	1/2015	Lee
D699,739 S	2/2014	Voreis et al.	D721,732 S	1/2015	Brinda et al.
D699,741 S	2/2014	Wantland et al.	D722,079 S	2/2015	Charles et al.
D699,744 S	2/2014	Ho Kushner et al.	D723,046 S	2/2015	Matias
8,655,885 B1	2/2014	Scott et al.	D723,051 S	2/2015	Park
D700,615 S	3/2014	Lee et al.	D723,058 S	2/2015	Matsuda
D700,617 S	3/2014	Brinda et al.	D723,059 S	2/2015	Shiplacoff et al.
D700,658 S	3/2014	Olschnoegger et al.	8,955,103 B2	2/2015	Kline, III et al.
D701,236 S	3/2014	Hatta	8,965,543 B2	2/2015	Han
D701,522 S	3/2014	Wang et al.	D723,577 S	3/2015	Matias
D701,866 S	4/2014	Pearson et al.	D723,578 S	3/2015	Matias et al.
D702,718 S	4/2014	Abratowski et al.	D723,579 S	3/2015	Paz
D703,219 S	4/2014	Shia et al.	D723,622 S	3/2015	Harris
D703,691 S	4/2014	Brinda et al.	D724,098 S	3/2015	Matias
D703,695 S	4/2014	Anzures et al.	D724,099 S	3/2015	Matias et al.
D704,204 S	5/2014	Rydenhag	D724,603 S	3/2015	Williams et al.
D704,216 S	5/2014	Dellinger	D724,606 S	3/2015	Matias
D704,218 S	5/2014	Ahn et al.	D724,613 S	3/2015	Liu et al.
D704,720 S	5/2014	Maxwell	D724,618 S	3/2015	Shin
D704,726 S	5/2014	Maxwell et al.	D725,129 S	3/2015	Matias
D704,731 S	5/2014	Pearson et al.	D725,130 S	3/2015	Matias
D705,244 S	5/2014	Arnold et al.	D725,131 S	3/2015	Matias
D705,251 S	5/2014	Pearson et al.	D725,134 S	3/2015	Boettcher et al.
D705,263 S	5/2014	Hartley	D725,671 S	3/2015	Dorfmann
D705,801 S	5/2014	Kerr et al.	8,989,786 B2	3/2015	Feghali
D705,802 S	5/2014	Kerr et al.	D726,199 S	4/2015	Matias
D705,808 S	5/2014	Anzures et al.	D726,202 S	4/2015	Zum
D705,809 S	5/2014	Jewitt	D726,203 S	4/2015	Prajapati et al.
D705,810 S	5/2014	Ma et al.	D726,221 S	4/2015	Gomez et al.
D706,791 S	6/2014	Sassoon	D726,748 S	4/2015	Maekawa
D706,803 S	6/2014	Rogowski et al.	D726,765 S	4/2015	Dye et al.
D707,246 S	6/2014	Inose et al.	D727,944 S	4/2015	Jarzabek
D707,253 S	6/2014	Yang et al.	9,002,879 B2	4/2015	Spiegelman et al.
D707,705 S	6/2014	Folken et al.	D728,615 S	5/2015	Guzman et al.
D709,086 S	7/2014	Baumann	D729,263 S	5/2015	Ahn et al.
D709,911 S	7/2014	Ording	D729,271 S	5/2015	Zhang et al.
D710,371 S	8/2014	van Os	D729,834 S	5/2015	Rezende et al.
D710,382 S	8/2014	Chaudhri	D729,845 S	5/2015	Lee
D711,896 S	8/2014	Hanson et al.	D730,387 S	5/2015	Park et al.
D711,909 S	8/2014	Chaudhri	D730,404 S	5/2015	Yu et al.
D711,911 S	8/2014	Karunamuni et al.	9,037,982 B2	5/2015	Seo et al.

US D902,221 S

D731,514 S	6/2015	Lee	D768,163 S	10/2016	Holl
D731,525 S	6/2015	Myers	D768,194 S	10/2016	MacBeth et al.
D731,529 S	6/2015	Cavander et al.	D768,648 S	10/2016	Sanderson et al.
D732,062 S	6/2015	Kwon	D768,649 S	10/2016	Sanderson et al.
D733,184 S	6/2015	Park	D768,650 S	10/2016	Chen et al.
D734,774 S	7/2015	Akana et al.	D768,687 S	10/2016	Bae et al.
9,075,523 B2	7/2015	Stallings et al.	D768,696 S	10/2016	Gagnier
9,087,521 B2	7/2015	Reynolds	D769,909 S	10/2016	Roberts et al.
D735,742 S	8/2015	Lee et al.	D769,925 S	10/2016	Akana et al.
D736,229 S	8/2015	Kim et al.	9,460,541 B2	10/2016	Li et al.
D736,237 S	8/2015	Lee et al.	D770,519 S	11/2016	Kobetz
D737,319 S	8/2015	Cavander et al.	D771,112 S	11/2016	Dellinger
D737,330 S	8/2015	Paolantonio et al.	D771,116 S	11/2016	Dellinger et al.
D738,904 S	9/2015	Tyler et al.	D771,121 S	11/2016	Sondak-Simampo
D738,905 S	9/2015	Chaudhri et al.	D771,123 S	11/2016	Anzures et al.
D738,911 S	9/2015	Phelan et al.	D771,653 S	11/2016	Bauer et al.
9,122,394 B2	9/2015	Funabashi et al.	D771,703 S	11/2016	Asai et al.
D740,322 S	10/2015	Dye et al.	D772,940 S	11/2016	Marianek et al.
D740,845 S	10/2015	Karunamuni et al.	D773,534 S	12/2016	Yuk
D741,874 S	10/2015	Apodaca et al.	D774,082 S	12/2016	Kanmamuni
D741,880 S	10/2015	Hong et al.	D774,096 S	12/2016	Evans et al.
D741,890 S	10/2015	Chaudhri et al.	D774,097 S	12/2016	Evans et al.
D742,894 S	11/2015	Foss et al.	D774,098 S	12/2016	Evans et al.
D742,906 S	11/2015	Penico et al.	D774,548 S	12/2016	Evans et al.
D742,912 S	11/2015	Tseng et al.	D774,549 S	12/2016	Evans et al.
D743,416 S	11/2015	Lim et al.	D774,550 S	12/2016	Evans et al.
D743,442 S	11/2015	Penico et al.	D774,551 S	12/2016	Evans
9,176,667 B2	11/2015	Yoon et al.	D774,552 S	12/2016	Evans et al.
D744,494 S	12/2015	Roberts et al.	D775,151 S	12/2016	Dellinger et al.
D745,023 S	12/2015	Kwon	D775,178 S	12/2016	Chaudhri et al.
D745,556 S	12/2015	Jeon et al.	D775,210 S	12/2016	Evans
9,223,862 B2	12/2015	Beckhardt	D775,211 S	12/2016	Evans
D746,831 S	1/2016	Chaudhri et al.	D775,212 S	12/2016	Evans
D747,344 S	1/2016	Balles et al.	D775,213 S	12/2016	Evans et al.
D749,626 S	2/2016	Park et al.	9,511,291 B2	12/2016	Lyons et al.
D750,124 S	2/2016	Everette et al.	D775,671 S	1/2017	Evans
D750,125 S	2/2016	Yang et al.	D776,701 S	1/2017	Huang et al.
D750,126 S	2/2016	Lee	D777,209 S	1/2017	Penico et al.
D751,089 S	3/2016	Kaufthal	D777,761 S	1/2017	Woo et al.
D751,090 S	3/2016	Hu et al.	D779,535 S	2/2017	Harju et al.
D752,071 S	3/2016	Lee et al.	D779,540 S	2/2017	Rad et al.
9,280,844 B2	3/2016	Larkin et al.	D779,548 S	2/2017	Shin et al.
D753,678 S	4/2016	Clarke et al.	9,576,400 B2	2/2017	van Os et al.
D754,688 S	4/2016	Chaudhri et al.	D780,798 S	3/2017	Yang et al.
D754,734 S	4/2016	Guzman et al.	D781,339 S	3/2017	Li et al.
D754,750 S	4/2016	Boix Sagarra et al.	D781,342 S	3/2017	Gandhi et al.
D755,215 S	5/2016	Lee et al.	D781,911 S	3/2017	Tegethoff
D756,370 S	5/2016	Arriola	D783,631 S	4/2017	Inose et al.
D756,379 S	5/2016	Apodaca et al.	D783,640 S	4/2017	Apodaca et al.
D757,031 S	5/2016	Chen et al.	D783,652 S	4/2017	Guan
D757,084 S	5/2016	Chaudhri et al.	D786,296 S	5/2017	Zhong et al.
D757,095 S	5/2016	Butcher et al.	D788,808 S	6/2017	Chaudhri et al.
D757,110 S	5/2016	Kang	D789,382 S	6/2017	Chaudhri et al.
D757,737 S	5/2016	Chaudhri et al.	D790,567 S *	6/2017	Su D14/486
9,329,830 B2	5/2016	Liu et al.	D790,581 S	6/2017	Chaudhri et al.
9,338,514 B2	5/2016	Kumar et al.	D791,162 S	7/2017	Dellinger et al.
9,342,220 B2	5/2016	Basu et al.	D792,454 S	7/2017	Baumez et al.
D759,067 S *	6/2016	Kim D14/486	D792,458 S	7/2017	Chaudhri et al.
D760,745 S	7/2016	Rawlins et al.	D795,295 S	8/2017	Bull et al.
D760,746 S	7/2016	Dellinger et al.	D795,924 S	8/2017	Sondak-Simampo
D760,747 S	7/2016	Gehiere et al.	D798,900 S	10/2017	Wan et al.
D760,766 S	7/2016	Repka	D801,365 S	10/2017	Broughton et al.
D760,768 S	7/2016	Um et al.	9,798,510 B2	10/2017	Kumar et al.
D760,791 S	7/2016	Liu et al.	D801,992 S	11/2017	Fischbach
D762,692 S	8/2016	Butcher et al.	D803,263 S	11/2017	Sepulveda
D762,725 S	8/2016	Chaudhri et al.	D803,859 S	11/2017	Su et al.
D763,297 S	8/2016	Chaudhri et al.	D803,873 S	11/2017	Thompson et al.
D763,313 S	8/2016	Sondak-Simampo	D804,524 S	12/2017	Zin et al.
D763,895 S	8/2016	Chaudhri et al.	D805,103 S	12/2017	Dellinger
D765,139 S *	8/2016	Hu D14/494	D806,110 S	12/2017	Dye et al.
D765,709 S	9/2016	Gagnier	D806,126 S	12/2017	Mander et al.
D765,731 S	9/2016	Hartley	D807,907 S	1/2018	Dellinger et al.
D766,258 S	9/2016	Wang et al.	D808,406 S	1/2018	Lee et al.
D766,276 S	9/2016	Chaudhri et al.	D809,553 S	2/2018	Chan et al.
D766,330 S	9/2016	Forslund et al.	D810,115 S	2/2018	Chaudhri et al.
D766,925 S	9/2016	Sanderson et al.	D810,130 S	2/2018	Forslund et al.
D766,982 S	9/2016	Forslund et al.	D813,271 S *	3/2018	Manzoni D14/492
D767,634 S	9/2016	Forslund et al.	9,940,003 B2	4/2018	Han et al.
9,448,692 B1	9/2016	Mierau et al.	D816,698 S	5/2018	Oldenburger et al.

US D902,221 S

D818,037 S	5/2018	Bauer et al.	2010/0118037 A1	5/2010	Sheikh et al.
D818,500 S	5/2018	Marianek et al.	2010/0146387 A1	6/2010	Hoover
D823,893 S	7/2018	Sepulveda et al.	2010/0146433 A1	6/2010	Murata et al.
D824,421 S	7/2018	Williams et al.	2010/0185064 A1	7/2010	Bandic et al.
D824,953 S	8/2018	Butcher et al.	2010/0192105 A1	7/2010	Kim et al.
D827,661 S	9/2018	Pirklbauer	2010/0231523 A1	9/2010	Chou
D829,235 S	9/2018	Gangcuangco et al.	2010/0233441 A1	9/2010	Kubota et al.
D829,239 S	9/2018	Rehman	2010/0248689 A1	9/2010	Teng et al.
D831,674 S	10/2018	Bauer et al.	2010/0298959 A1	11/2010	Sekiguchi
D831,696 S	10/2018	Clarke et al.	2010/0332518 A1	12/2010	Song et al.
D835,657 S	12/2018	Anzures et al.	2011/0029927 A1	2/2011	Lietzke et al.
D835,673 S	12/2018	Sepulveda	2011/0060988 A1	3/2011	Mysliwy
D836,654 S	12/2018	Fraser et al.	2011/0083074 A1	4/2011	Jellison, Jr. et al.
D837,228 S	1/2019	Chaudhri et al.	2011/0122077 A1	5/2011	Choi
D839,299 S	1/2019	Lee et al.	2011/0161080 A1	6/2011	Ballinger et al.
D841,050 S	2/2019	Butcher et al.	2011/0161890 A1	6/2011	Anderson et al.
D843,442 S	3/2019	Barlier et al.	2011/0169853 A1	7/2011	Oiwa et al.
D844,049 S	3/2019	Barlier et al.	2011/0202963 A1	8/2011	Fulcher et al.
D844,700 S	4/2019	Barlier et al.	2011/0252383 A1	10/2011	Miyashita
D847,198 S	4/2019	Taylor et al.	2011/0258547 A1	10/2011	Symons et al.
D847,854 S	5/2019	Christian et al.	2011/0264764 A1	10/2011	Kewalramani et al.
D863,354 S *	10/2019	Chen D14/492	2011/0271194 A1	11/2011	Lin et al.
D875,135 S *	2/2020	Tran D14/489	2011/0288868 A1	11/2011	Lloyd et al.
D875,785 S *	2/2020	Hugot D14/495	2012/0011568 A1	1/2012	Tahan
D876,534 S	2/2020	Bauer et al.	2012/0022872 A1	1/2012	Gmber et al.
D877,194 S *	3/2020	Pazmino D14/489	2012/0023401 A1	1/2012	Arcscott et al.
2002/0054154 A1	5/2002	Fukuda et al.	2012/0026105 A1	2/2012	Cheung et al.
2002/0089549 A1	7/2002	Munro et al.	2012/0035908 A1	2/2012	Lebeau et al.
2002/0130894 A1	9/2002	Young et al.	2012/0036435 A1	2/2012	Yang et al.
2003/0151611 A1	8/2003	Turpin et al.	2012/0036480 A1	2/2012	Warner et al.
2003/0160824 A1	8/2003	Szumla	2012/0056827 A1	3/2012	Kim et al.
2003/0169291 A1	9/2003	Nakata et al.	2012/0068854 A1	3/2012	Shiflet et al.
2003/0174177 A1	9/2003	Tsukuda et al.	2012/0079427 A1	3/2012	Carmichael et al.
2004/0064510 A1	4/2004	Ooi et al.	2012/0084692 A1	4/2012	Bae
2004/0235520 A1	11/2004	Cadiz et al.	2012/0088447 A1	4/2012	Kwahk et al.
2005/0050474 A1	3/2005	Bells et al.	2012/0096410 A1	4/2012	Lancaster
2005/0066286 A1	3/2005	Makela	2012/0105490 A1	5/2012	Pasquero et al.
2005/0114783 A1	5/2005	Szeto	2012/0110510 A1	5/2012	Cindy et al.
2005/0138574 A1	6/2005	Lin	2012/0137216 A1	5/2012	Choi
2005/0193345 A1	9/2005	Klassen et al.	2012/0159328 A1	6/2012	Millington et al.
2005/0257170 A1	11/2005	Kim et al.	2012/0165071 A1	6/2012	Hsu et al.
2006/0174273 A1	8/2006	Park et al.	2012/0254804 A1	10/2012	Sheha et al.
2006/0212811 A1	9/2006	Gottfurcht et al.	2012/0266100 A1	10/2012	Caliendo, Jr. et al.
2006/0238517 A1	10/2006	King et al.	2012/0311472 A1	12/2012	Kim
2006/0284852 A1	12/2006	Hofmeister et al.	2012/0316932 A1	12/2012	Ralunan et al.
2006/0294465 A1	12/2006	Ronen et al.	2013/0050250 A1	2/2013	Brinda et al.
2007/0067738 A1	3/2007	Flynt et al.	2013/0067419 A1	3/2013	Eltoft
2007/0135690 A1	6/2007	Nicholl	2013/0069893 A1	3/2013	Brinda et al.
2007/0226655 A1	9/2007	Shimizu	2013/0076657 A1	3/2013	Reeves et al.
2007/0283263 A1	12/2007	Zawde et al.	2013/0086492 A1	4/2013	Sirpal et al.
2008/0034309 A1	2/2008	Louch et al.	2013/0086522 A1	4/2013	Shimazu et al.
2008/0082613 A1	4/2008	Szeto et al.	2013/0145286 A1	6/2013	Feng et al.
2008/0092061 A1	4/2008	Bankston et al.	2013/0145313 A1	6/2013	Roh et al.
2008/0094369 A1	4/2008	Ganatra et al.	2013/0159931 A1	6/2013	Lee et al.
2008/0098331 A1	4/2008	Novick et al.	2013/0180383 A1	7/2013	Vandendool
2008/0120548 A1	5/2008	Morita et al.	2013/0185679 A1	7/2013	Fretwell et al.
2008/0163054 A1	7/2008	Pieper et al.	2013/0187780 A1	7/2013	Angelides
2008/0163119 A1	7/2008	Kim et al.	2013/0211565 A1	8/2013	Kimoto
2008/0189658 A1	8/2008	Jeong et al.	2013/0268875 A1	10/2013	Han et al.
2008/0195944 A1	8/2008	Lee et al.	2013/0321340 A1	12/2013	Seo et al.
2008/0235248 A1	9/2008	Krantz et al.	2014/0059494 A1	2/2014	Lee et al.
2008/0276199 A1	11/2008	Hosogai et al.	2014/0204076 A1	7/2014	Kuper et al.
2008/0295027 A1	11/2008	Seo et al.	2014/0240260 A1	8/2014	Park et al.
2009/0061837 A1	3/2009	Chaudhri et al.	2014/0240579 A1	8/2014	Park et al.
2009/0064038 A1	3/2009	Fleischman et al.	2014/0250564 A1	9/2014	Ramos
2009/0089675 A1	4/2009	Han	2014/0258901 A1	9/2014	Cho
2009/0113318 A1	4/2009	Roseway et al.	2014/0278408 A1	9/2014	Park et al.
2009/0113333 A1	4/2009	Dellinger et al.	2014/0282254 A1	9/2014	Feiereisen et al.
2009/0144644 A1	6/2009	Chaudhri et al.	2014/0298233 A1	10/2014	Petty et al.
2009/0172562 A1	7/2009	Lai	2014/0319232 A1	10/2014	Gourlay et al.
2009/0199120 A1	8/2009	Baxter et al.	2014/0333528 A1	11/2014	Murata
2009/0217188 A1	8/2009	Alexander et al.	2014/0337771 A1	11/2014	Jung et al.
2009/0228820 A1	9/2009	Kim et al.	2014/0337791 A1	11/2014	Agnetta et al.
2009/0244003 A1	10/2009	Bonnat	2014/0351744 A1	11/2014	Jeon et al.
2009/0264158 A1	10/2009	Backing	2014/0362105 A1	12/2014	Kocienda et al.
2009/0271731 A1	10/2009	Lin et al.	2014/0365904 A1	12/2014	Kim et al.
2009/0300513 A1	12/2009	Nims et al.	2014/0365958 A1	12/2014	Park et al.
2010/0017715 A1	1/2010	Balassanian	2015/0020101 A1	1/2015	Brown et al.
2010/0023865 A1	1/2010	Fulker et al.	2015/0046876 A1	2/2015	Goldenberg

2015/0082231	A1	3/2015	Ren et al.
2015/0116490	A1	4/2015	Scalisi
2015/0121309	A1	4/2015	Reed
2015/0205472	A1	7/2015	Han et al.
2015/0205509	A1	7/2015	Scriven et al.
2015/0286391	A1	10/2015	Jacobs et al.
2015/0345068	A1	12/2015	Coffiman et al.
2016/0011726	A1	1/2016	Felt
2016/0028736	A1	1/2016	Gehring
2016/0046468	A1	2/2016	Heravi et al.
2016/0054908	A1	2/2016	Vegesna et al.
2016/0062589	A1	3/2016	Wan et al.
2016/0062630	A1	3/2016	Anzures et al.
2016/0063748	A1	3/2016	Kim et al.
2016/0180801	A1	6/2016	Lee et al.
2016/0188152	A1	6/2016	Chou et al.
2016/0188197	A1	6/2016	Ryu et al.
2016/0291831	A1	10/2016	Baek et al.
2016/0357282	A1	12/2016	Block et al.
2017/0046121	A1	2/2017	Lee et al.
2017/0068449	A1	3/2017	Stapnes Johnsen et al.
2017/0083586	A1	3/2017	Huang et al.
2017/0153792	A1	6/2017	Kapoor et al.
2017/0192651	A1	7/2017	Yang et al.
2017/0249056	A1	8/2017	Rainey et al.
2017/0255342	A1	9/2017	Fontaine et al.
2017/0315699	A1	11/2017	Markus et al.
2017/0336961	A1	11/2017	Heo et al.
2017/0351850	A1	12/2017	Jin et al.
2018/0025323	A1	1/2018	Pintos
2018/0091732	A1	3/2018	Wilson et al.
2018/0165858	A1	6/2018	Ahuja et al.
2018/0329587	A1	11/2018	Ko et al.

OTHER PUBLICATIONS

Blahhh Blahhhh, by Tomei, YouTube [online], published on May 9, 2010, [retrieved on Jul. 24, 2020], retrieved from the Internet <URL: <https://www.youtube.com/watch?v=gobLjk1QBtc>> (Year: 2010).*

Rescuing Eddy | Pororo Shark Attack!!, YouTube [online], published on Oct. 16, 2016, [retrieved on Jul. 24, 2020], retrieved from the Internet <URL: <https://www.youtube.com/watch?v=sAb487Fsizk>> (Year: 2016).*

AgfaPhoto Holding GmbH, German Trademark No. 30518789; Filing Date: Mar. 31, 2005.

Japanese Patent Office Document (JPO) Document HJ2519047500, “Free Wallpapers, Games & Apps Tube 4 You,” <https://play.google.com/store/apps/details?id=com.appspot.yourdepot.angryshark>, dated Dec. 23, 2013.

Emojipedia, “Apple iOS 10.2” (<http://www.emojipedia.com/apple/ios-10.2/>), Dated Dec. 12, 2016, 33 pages.

Full Emoji Data Chart [on-line]. Dated Jan. 6, 2016. URL:<https://web.archive.org/web/20160106153511/http://unicode.org/emoji/charts/full-emoji-list.html>> (70 pages).

Apple iOS 11.1 Emoji List. URL: <<https://emojipedia.org/apple/ios-11.1/>>. (34 pages). Dated Oct. 31, 2017.

“Use Animoji on your i Phone X,”[on-line]. Webpage captured by Internet Archives Wayback Machine, Dated Nov. 3, 2017; URL: <<https://web.archive.org/web/20171103113552/https://support.apple.com/en-us/HT208190>> (3 pages).

Apple iOS 11.2 Emoji List [on-line]. URL: <<https://emojipedia.org/apple/ios-11.2/>>. (34 pages). Dated Dec. 2, 2017.

Apple iOS 11.3 Emoji List. URL: <<https://emojipedia.org/apple/ios-11.3/>>. (36 pages). Dated Mar. 29, 2018.

* cited by examiner

Primary Examiner — Cathron C Brooks
Assistant Examiner — Ian F Whitmore
(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **CLAIM**

The ornamental design for an electronic device with animated graphical user interface, as shown and described.

DESCRIPTION

The file of this patent contains at least one drawing/photograph executed in color. Copies of this patent with color drawing(s)/photograph(s) will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a front view of a display screen or portion thereof with animated graphical user interface showing a first image of the claimed design;

FIG. 2 is a second image thereof;

FIG. 3 is a third image thereof;

FIG. 4 is a fourth image thereof;

FIG. 5 is a front view of a second embodiment of a display screen or portion thereof with animated graphical user interface showing a first image of the claimed design;

FIG. 6 is a second image thereof;

FIG. 7 is a third image thereof;

FIG. 8 is a fourth image thereof;

FIG. 9 is a front view of a third embodiment of a display screen or portion thereof with animated graphical user interface showing a first image of the claimed design;

FIG. 10 is a second image thereof;

FIG. 11 is a third image thereof;

FIG. 12 is a fourth image thereof;

FIG. 13 is a front view of a fourth embodiment of a display screen or portion thereof with animated graphical user interface showing a first image of the claimed design;

FIG. 14 is a second image thereof;

FIG. 15 is a third image thereof;

FIG. 16 is a fourth image thereof; and,

FIG. 17 is a front view of an electronic device having a display screen with the graphical user interface of FIG. 1 applied to the display screen. The animated graphical user interface designs of FIGS. 2-4 FIGS. 5-8, FIGS. 9-12 and FIGS. 13-16 may be similarly applied thereto.

The outer dashed broken lines in the figures show a display screen or portion thereof, or an electronic device having a display screen, and form no part of the claimed design.

The dot-dash broken lines in the figures and the faded areas within the dot-dash broken lines show portions of the animated graphical user interface that form no part of the claimed design.

The appearance of the animated image sequentially transitions between the images shown in FIGS. 1-4, FIGS. 5-8, FIGS. 9-12, and FIGS. 13-16, respectively. The process or period in which one image transitions to another forms no part of the claimed design.

1 Claim, 17 Drawing Sheets
(9 of 17 Drawing Sheet(s) Filed in Color)

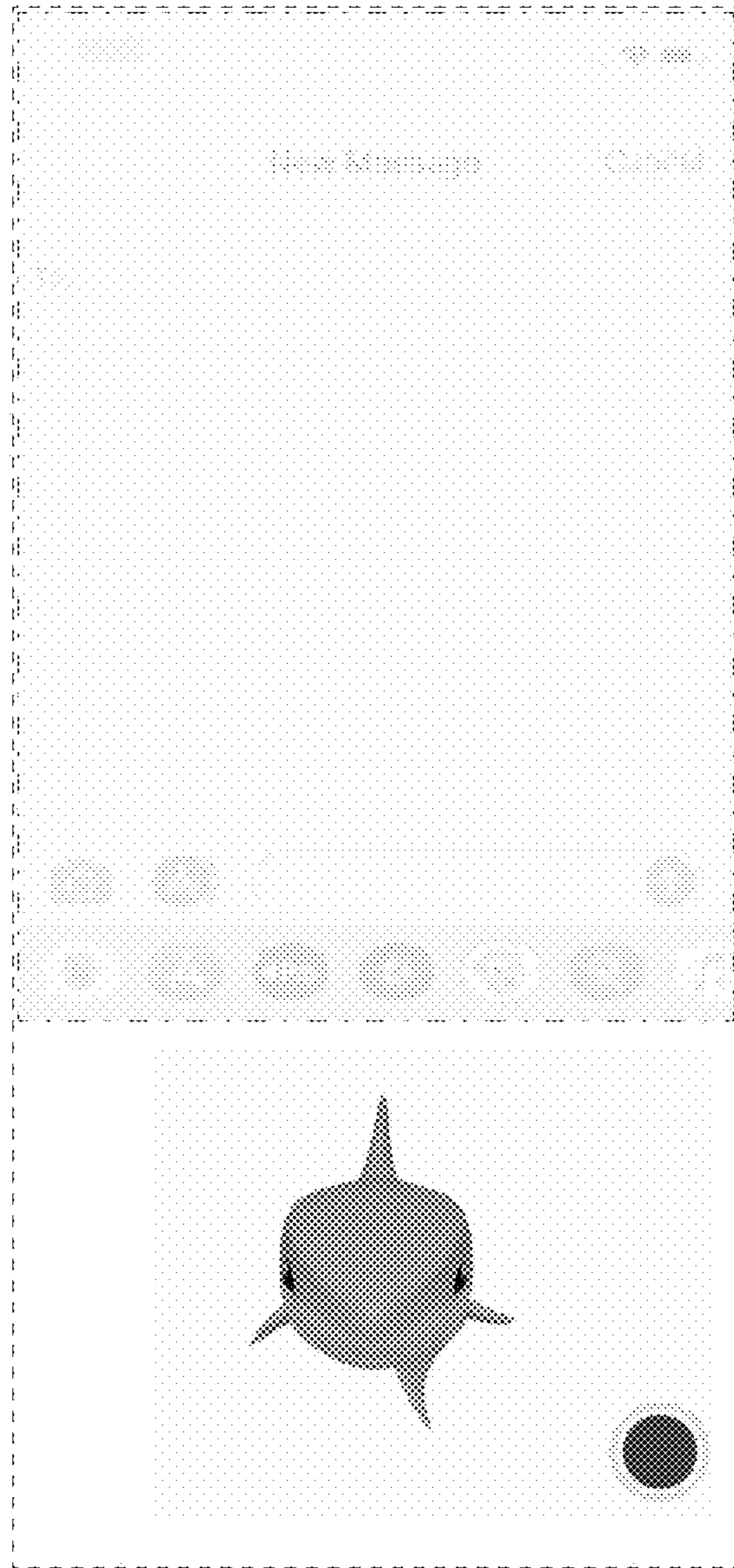


FIG. 1

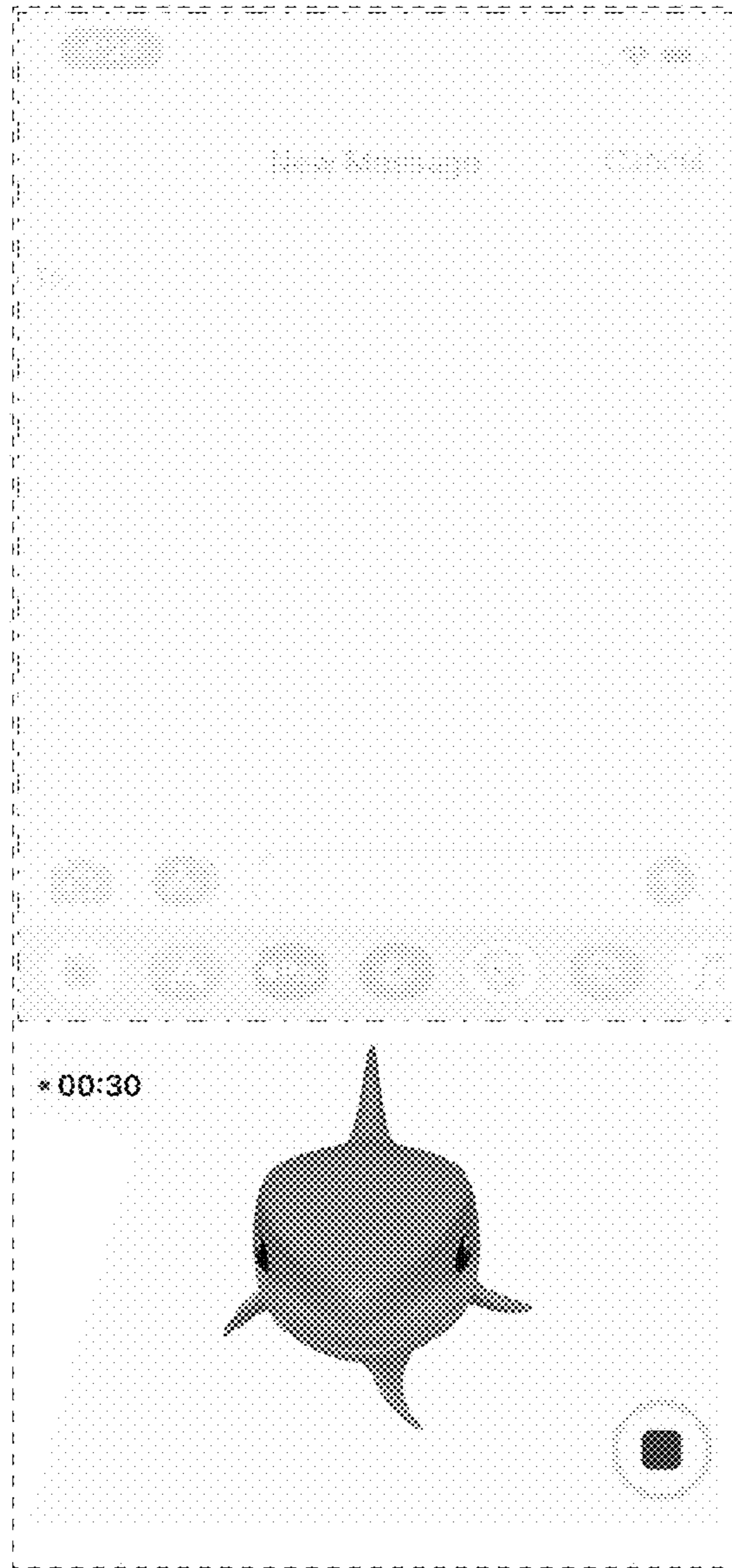


FIG. 2

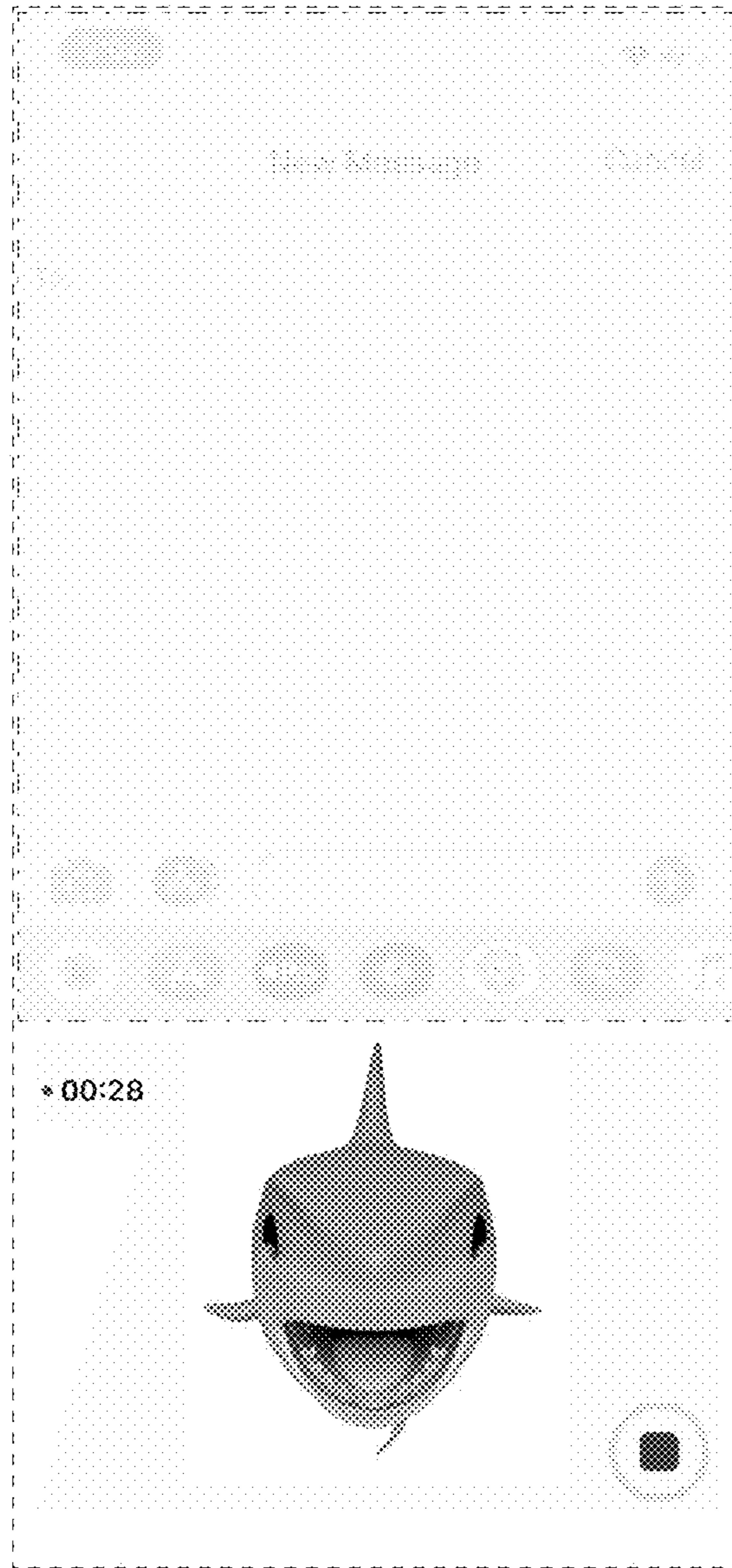


FIG. 3

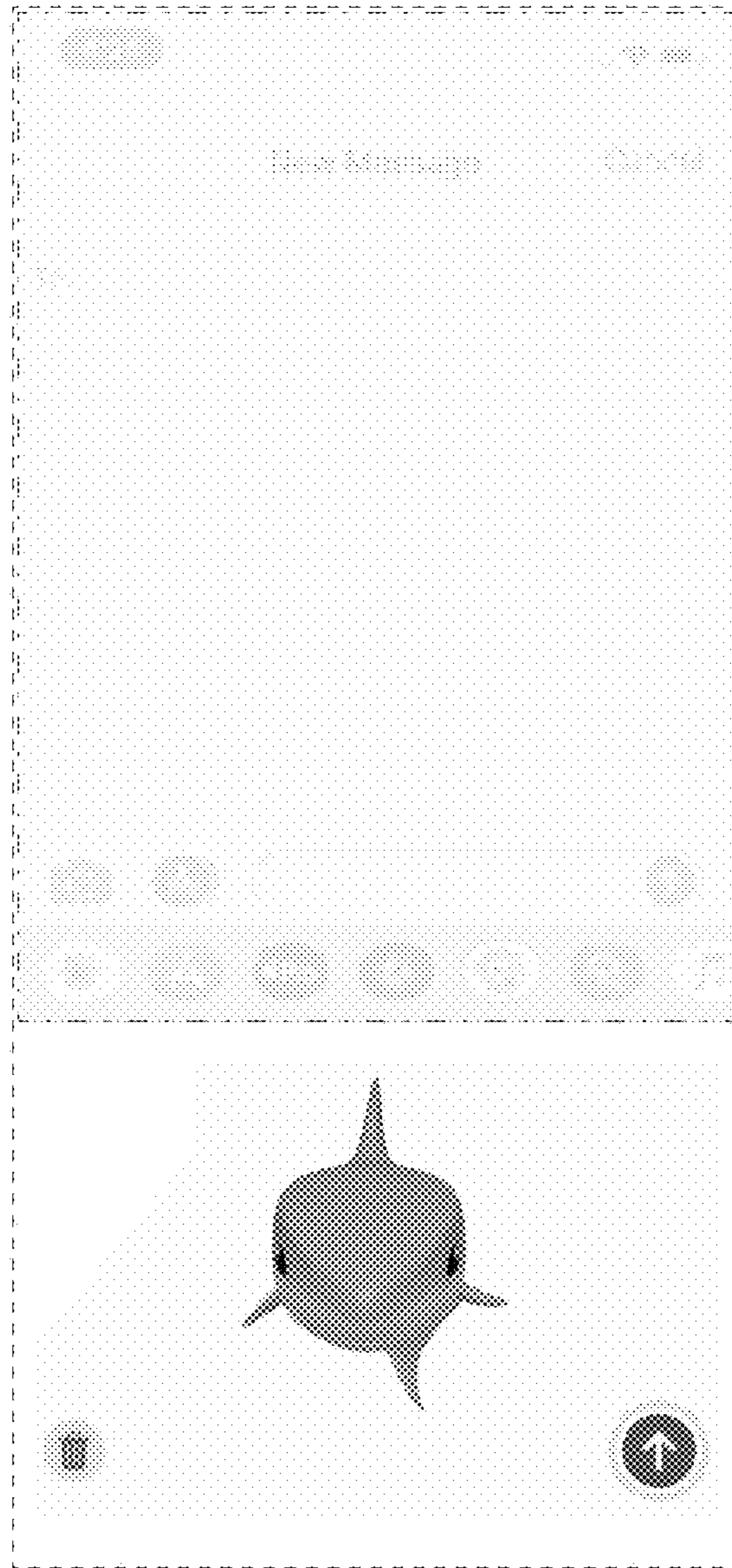


FIG. 4

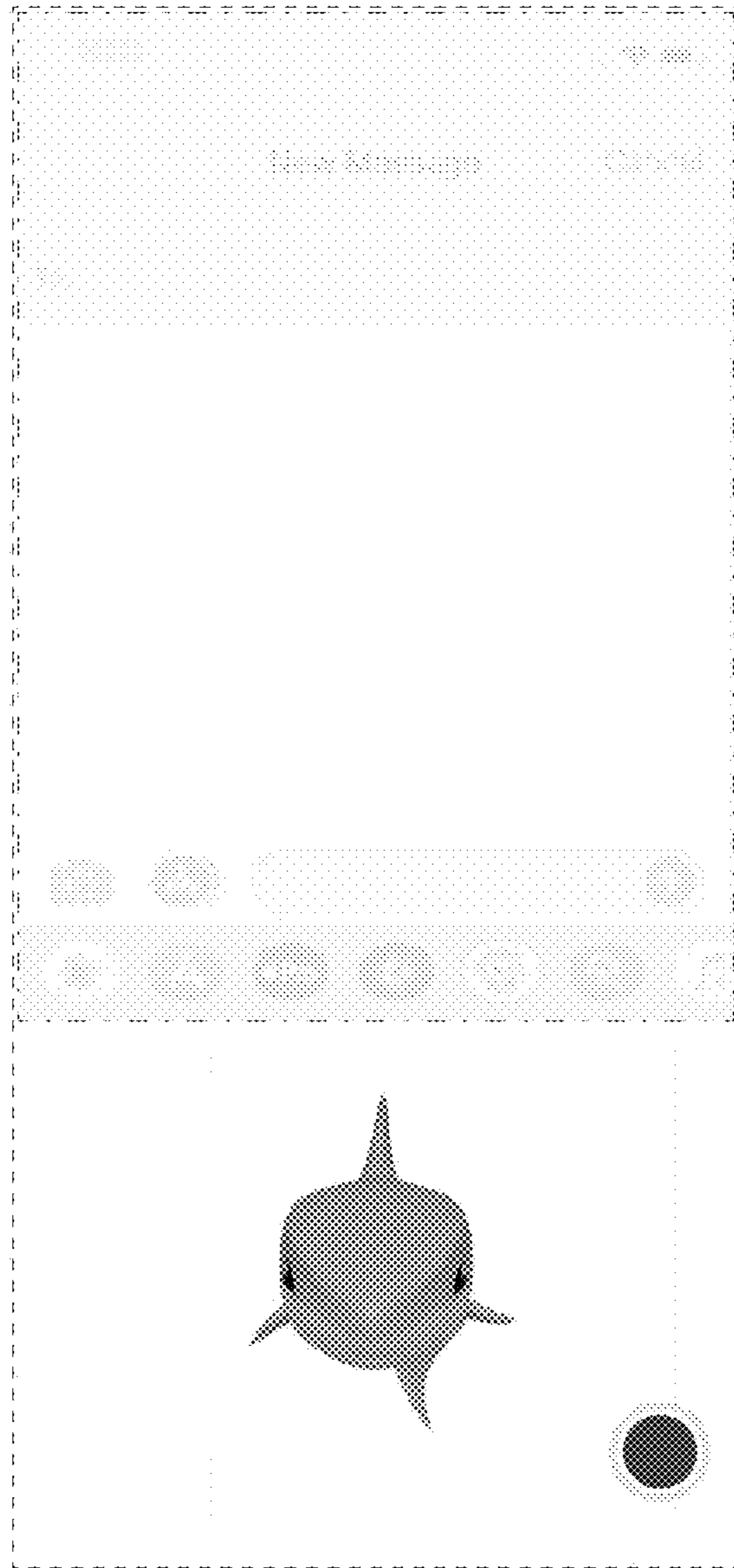


FIG. 5

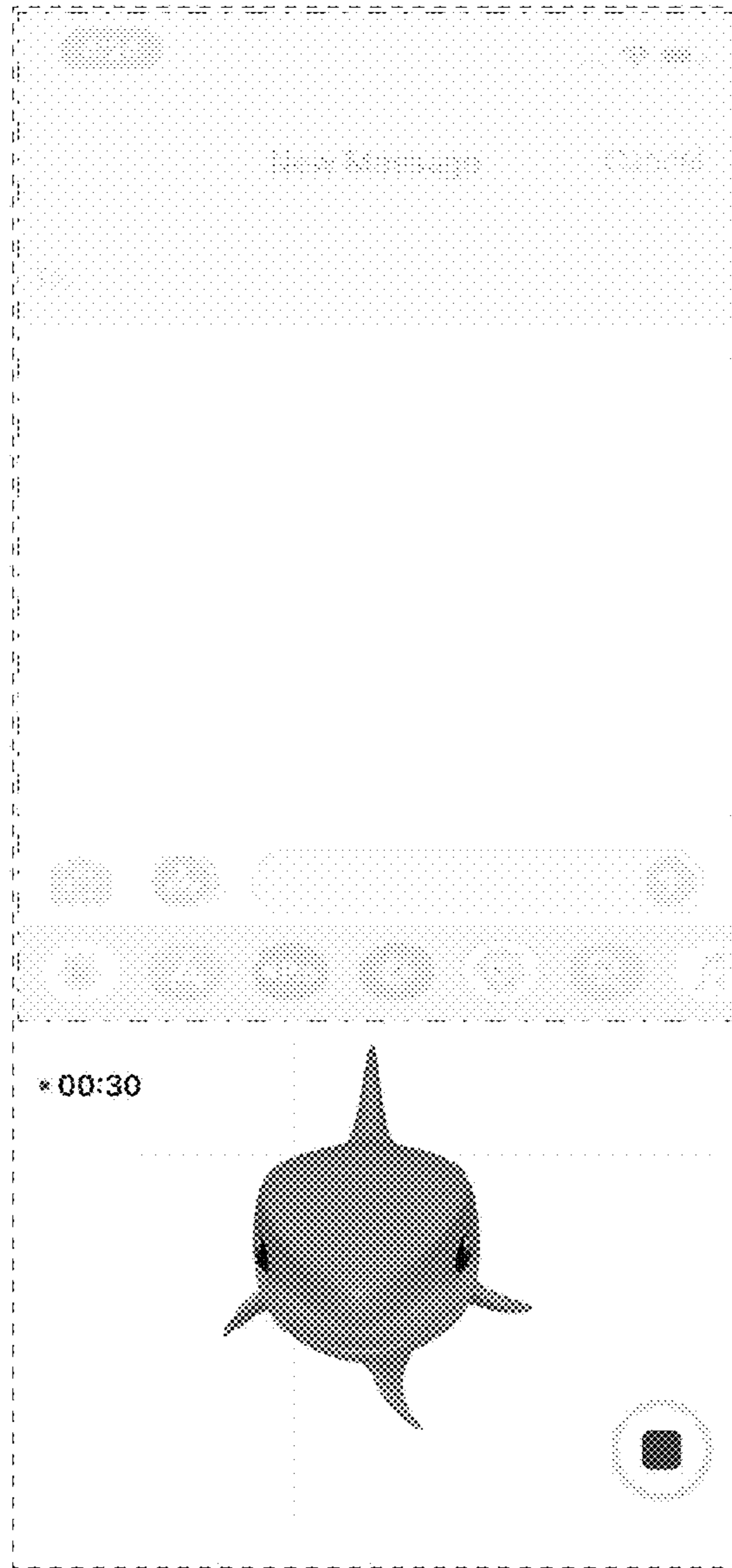


FIG. 6

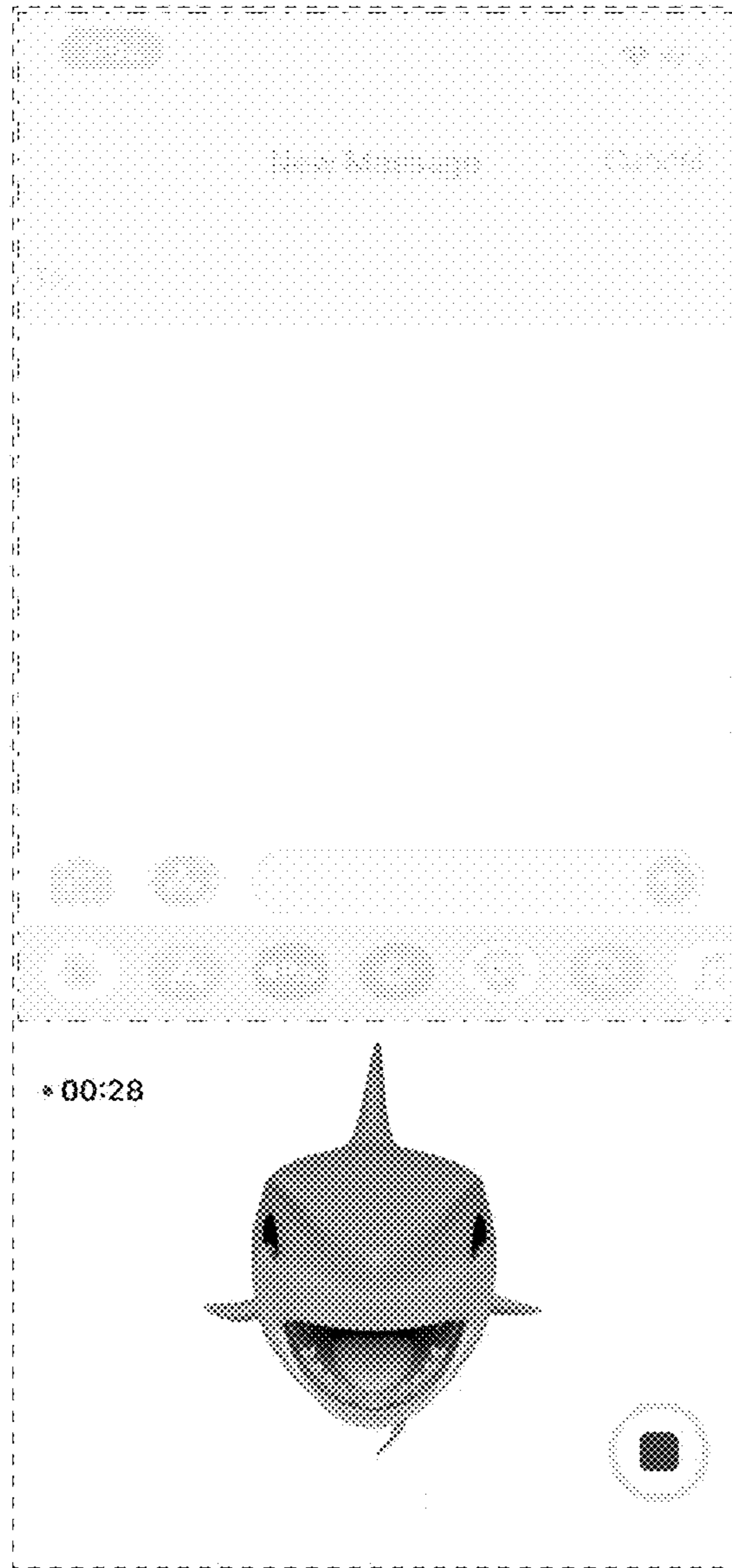


FIG. 7

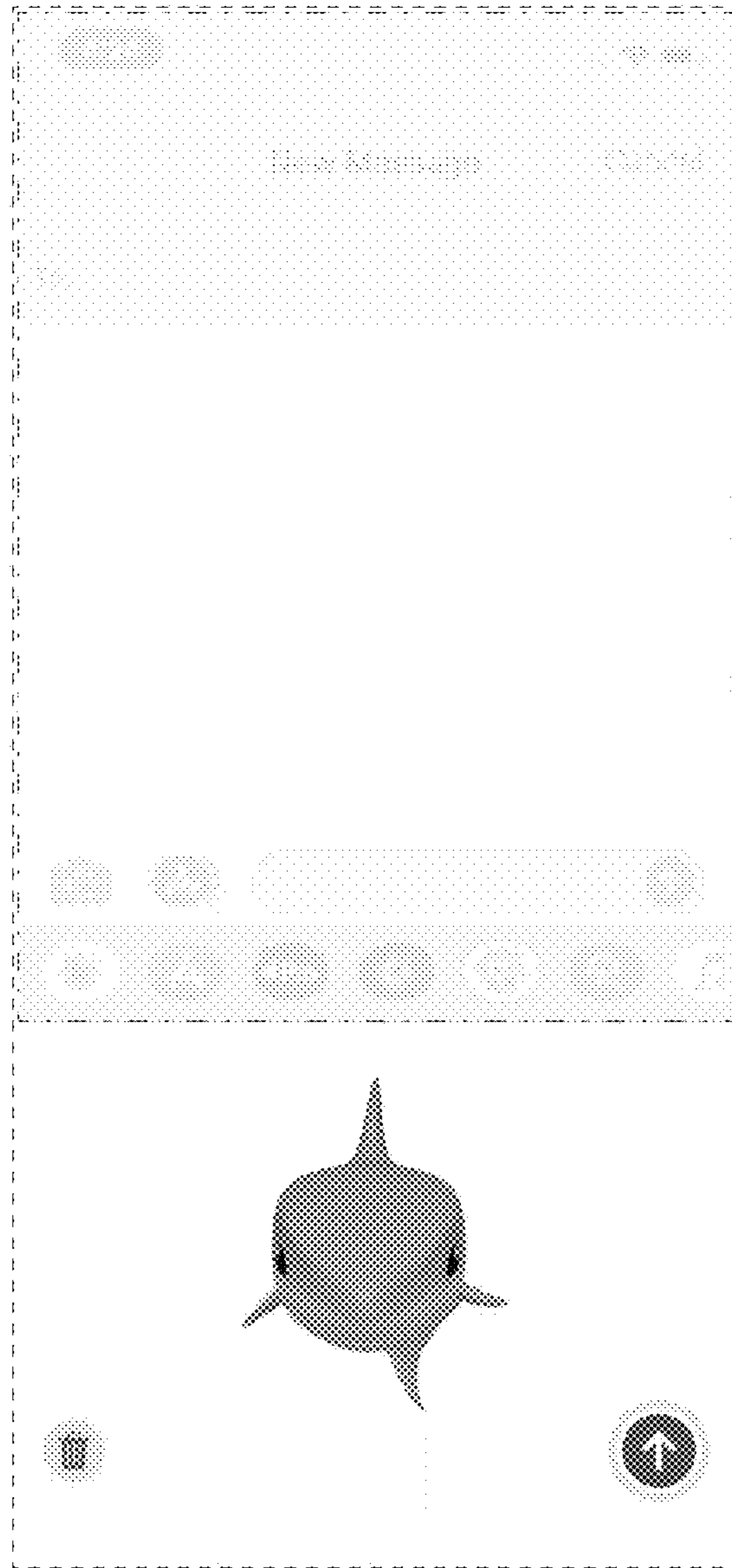


FIG. 8

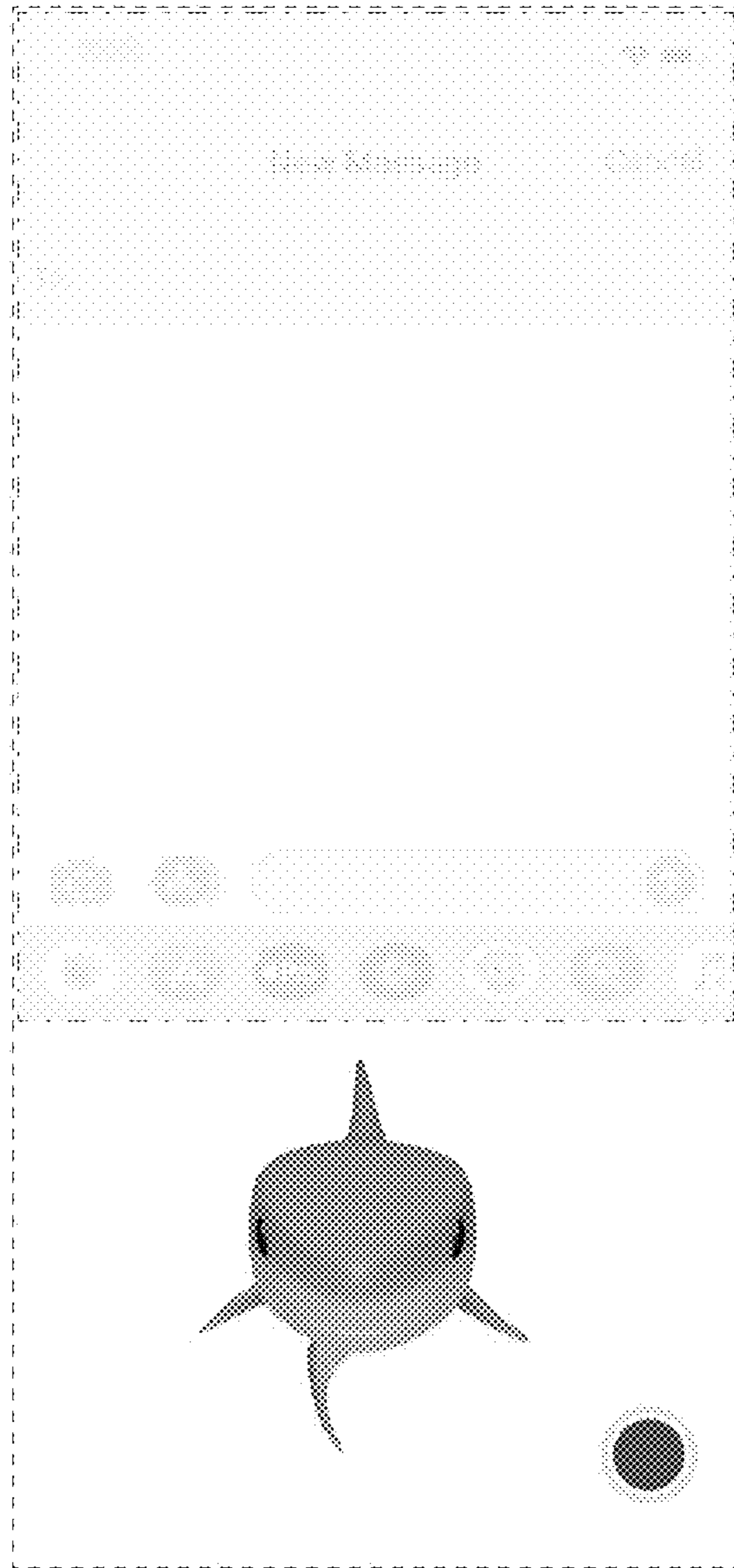


FIG. 9

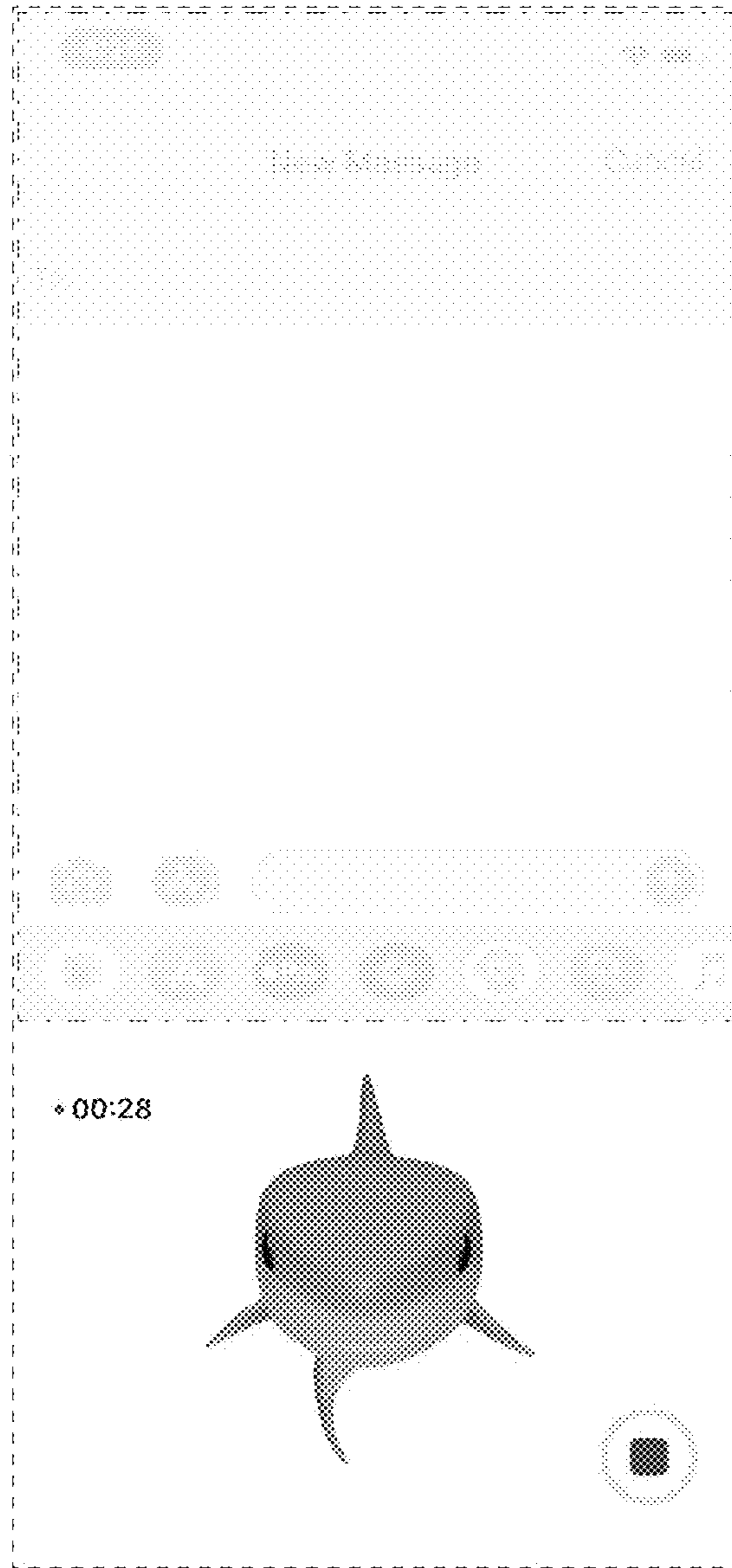


FIG. 10

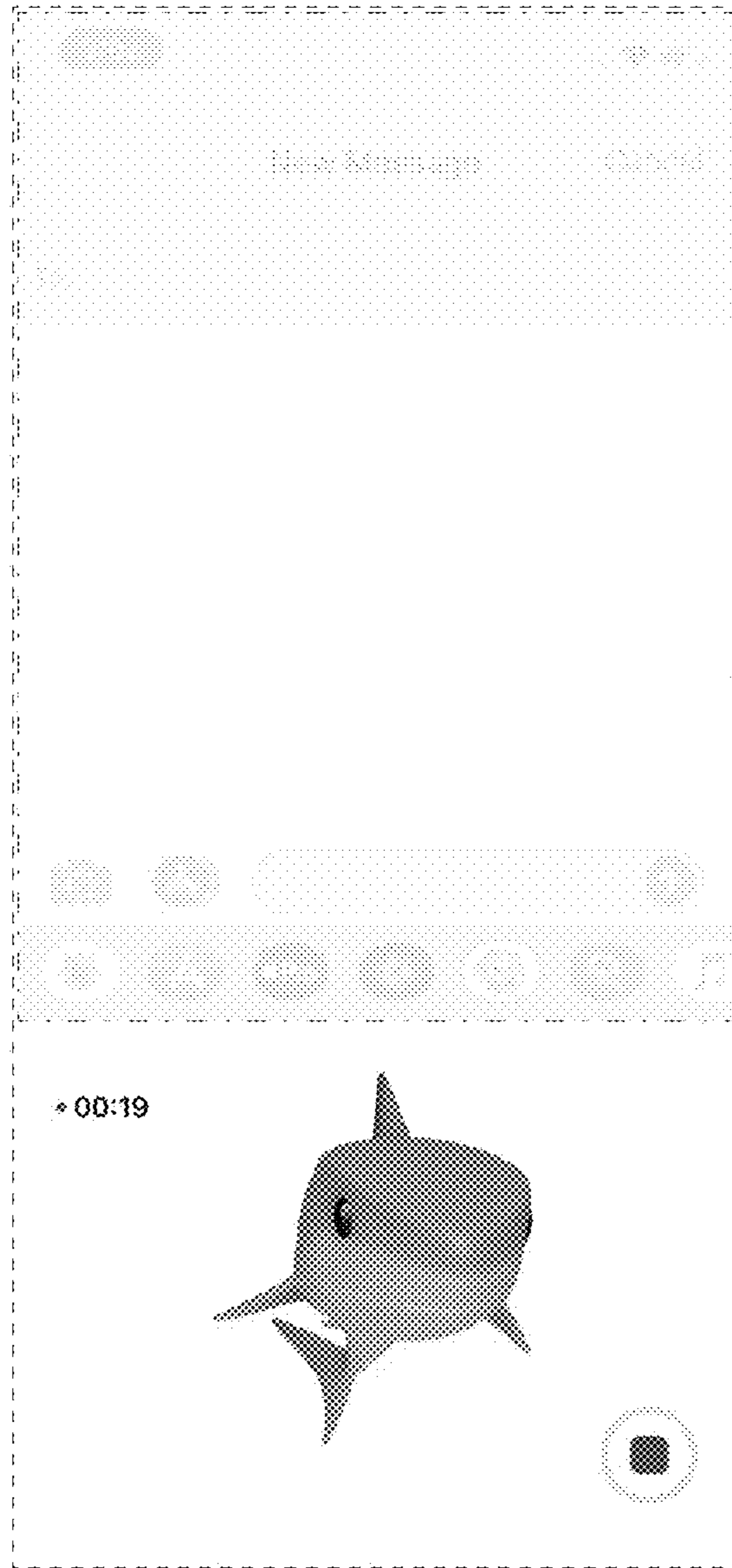


FIG. 11

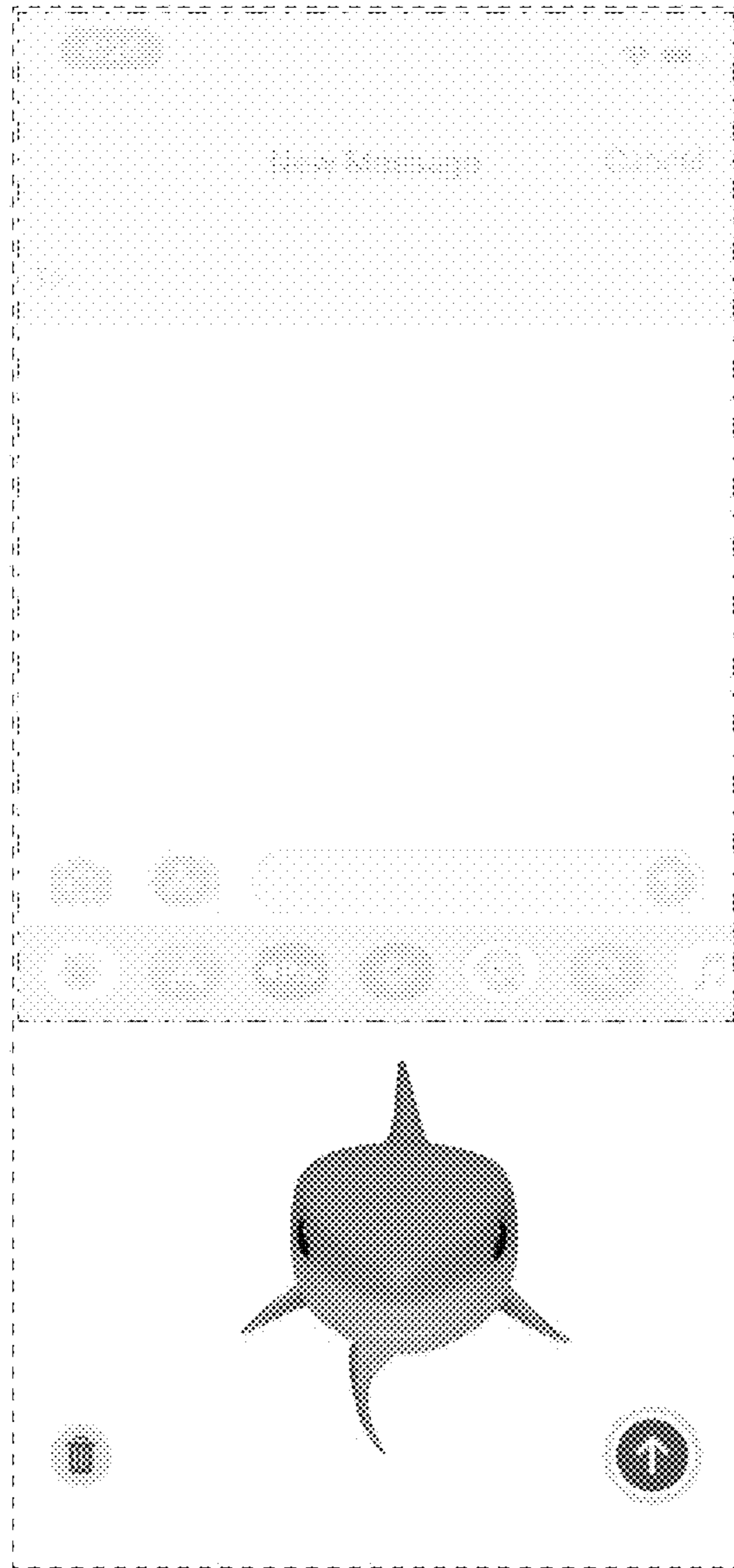


FIG. 12

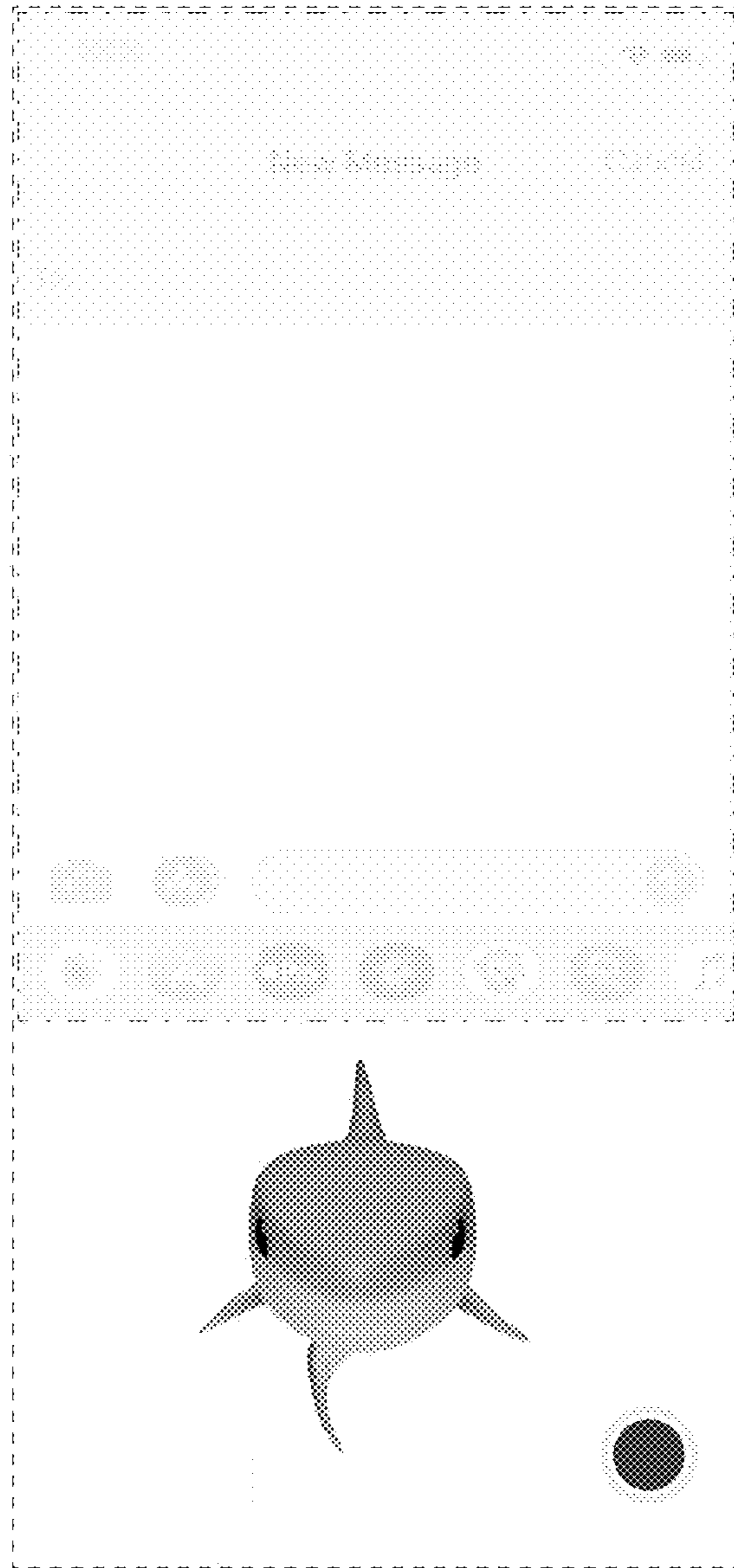


FIG. 13

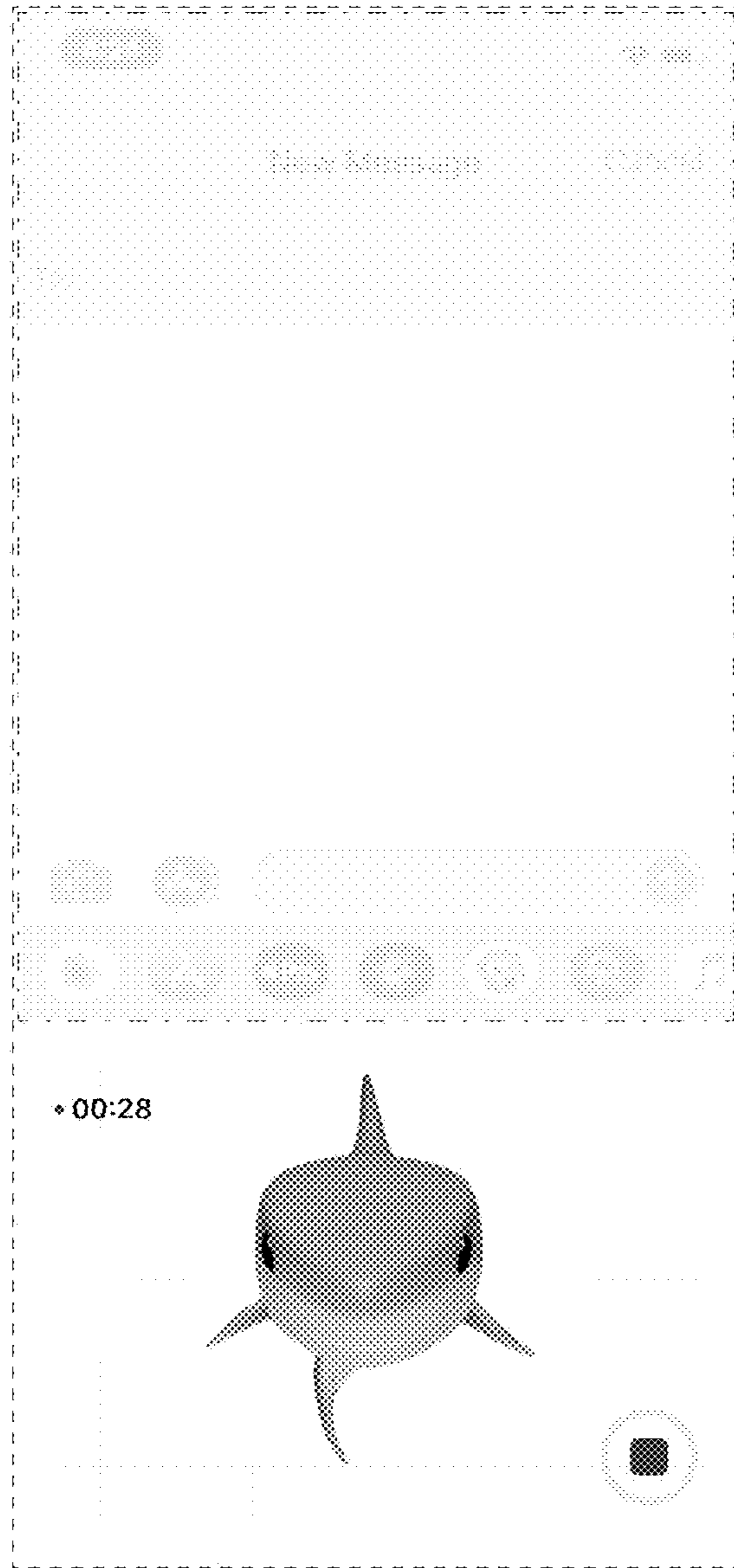


FIG. 14

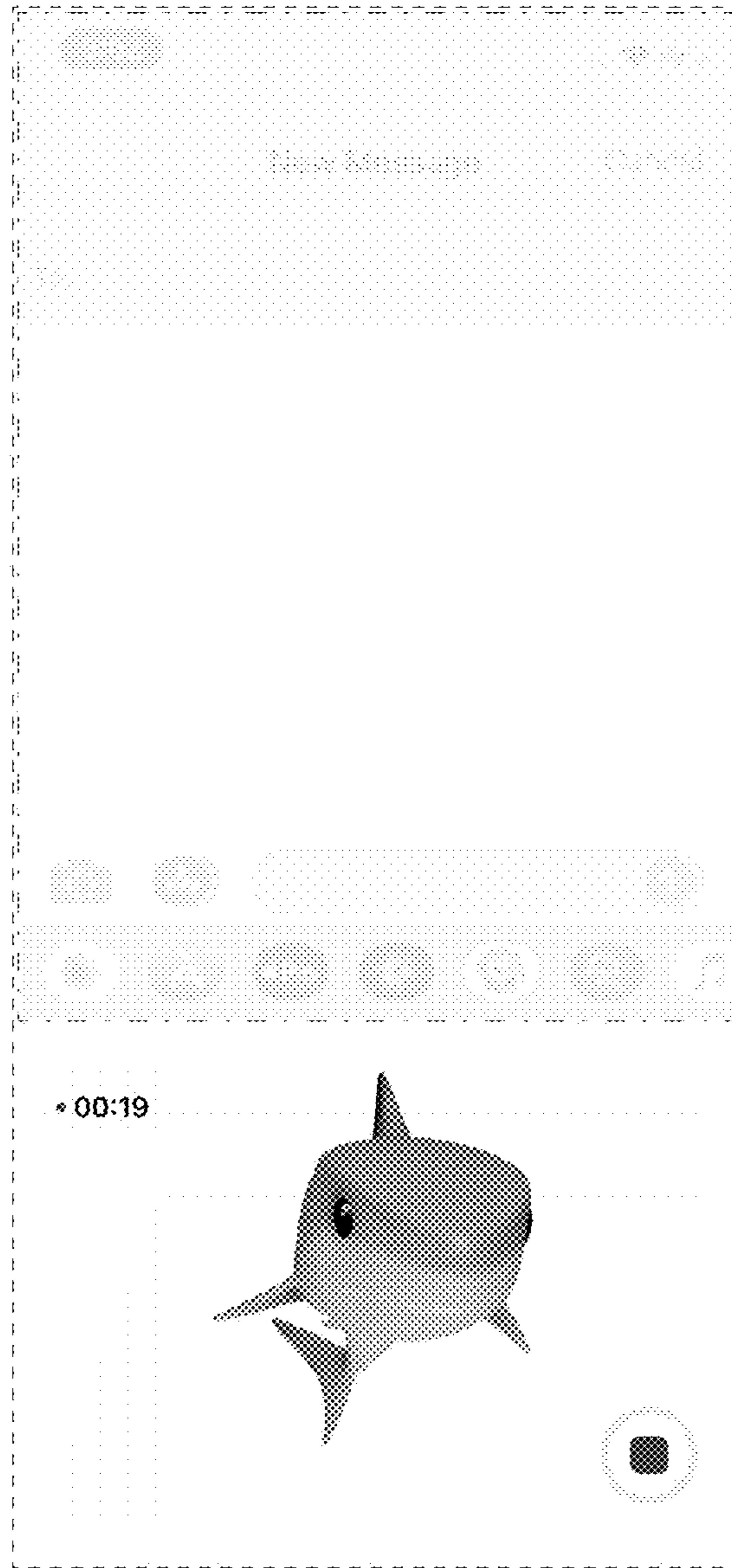


FIG. 15

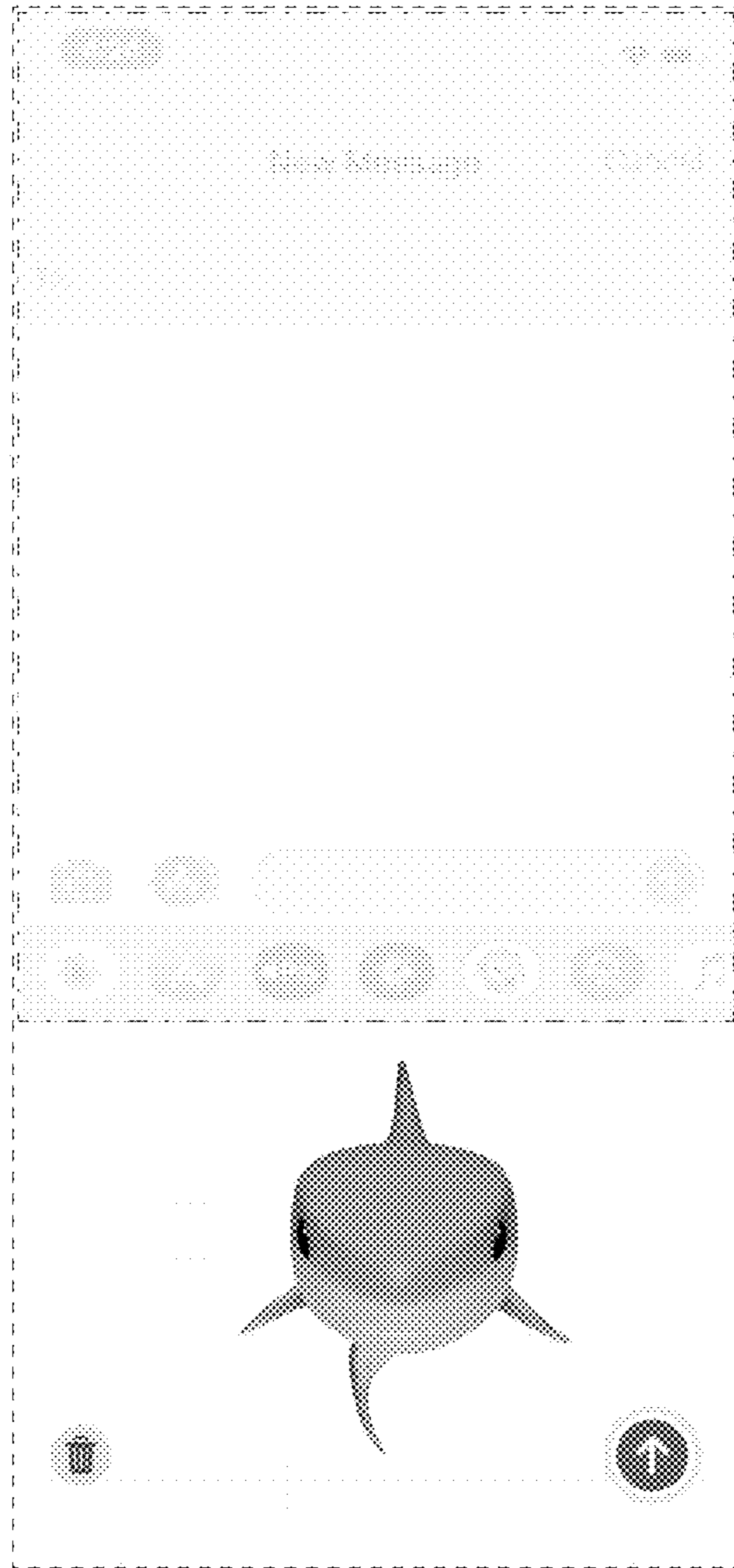


FIG. 16

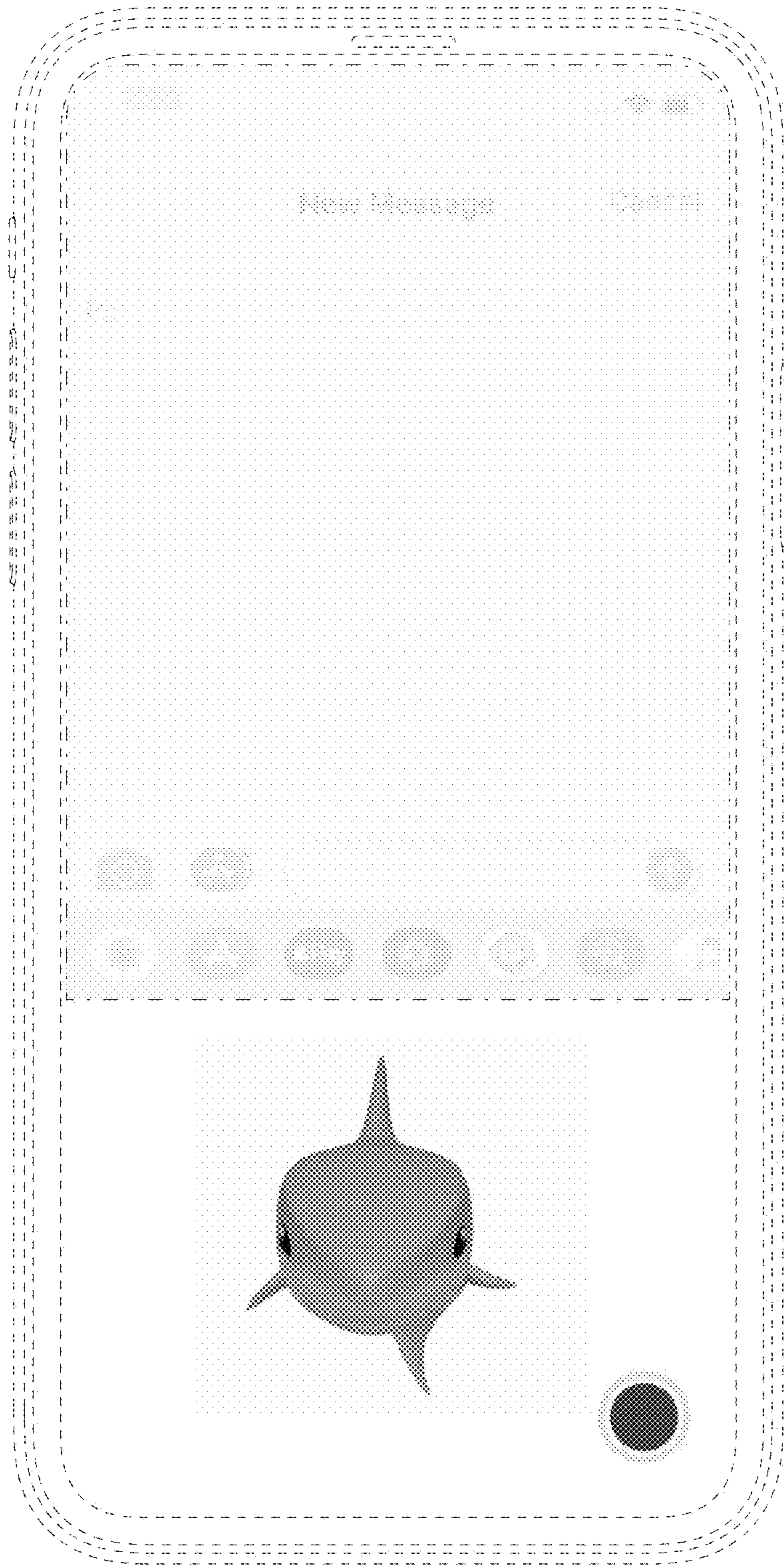


FIG. 17