IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Sean Rad et al.

Serial No.:   14/059,192

Filing Date: October 21, 2013

Group Art Unit: 2164

Examiner: Yuk Ting Choi

Confirmation No.:   1044

Title: MATCHING PROCESS SYSTEM AND METHOD

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Dear Sir:

DECLARATION PURSUANT TO 37 C.F.R. § 1.131

I, the undersigned, declare and state that:

1.   I am over the age of 21 years, of sound mind, and competent in all respects to make this Declaration.

2.   I am an inventor of the subject matter of the above-referenced application (the "Application").

3.   Prior to August 6, 2012 (the "Effective Date"), I gained a full understanding of the subject matter of at least the current version of the claims of the Application (attached as Exhibit A).

4.   Attached as Exhibit B are screenshots and accompanying descriptions of a working application developed prior to the Effective Date. The application presented potential matches to a candidate and could use geographic proximity to determine which potential matches to present. The application enabled text-based communication between two users once they both expressed approval for each other and notified the users of the
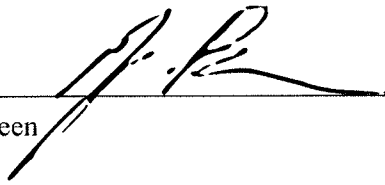
match and possibility of communicating. If one user did not express approval (or expressed disapproval) for another user, the application would prevent communication between the users. The application was tested, prior to the Effective Date, to confirm that the functionality discussed above worked.

5. Prior to the Effective Date, I developed code that implemented using swiping gestures to express approval and disapproval of a potential match. Attached as Exhibit C are portions of that source code.

6. All of the work in conceiving and reducing to practice the subject matter of the current version of the claims in the Application occurred in the United States.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true. Further, I declare that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the Application or any patent issuing thereon.

Signed this __30th__ day of ___January, 2017__ ,~~2016~~.

_____
Jonathan Badeen

Exhibit A

Currently Pending Claims:

1.-22.   (Canceled)

23. (Previously Presented) A computer implemented method of profile matching, comprising:

electronically receiving a first request for matching, the first request electronically submitted by a first user using a first electronic device;

determining a set of potential matches for the first user in response to receiving the first request;

causing the display of a graphical representation of a first potential match of the set of potential matches to the first user on a graphical user interface of the first electronic device, the first potential match corresponding to a second user;

determining that the first user expressed a positive preference indication regarding the first potential match at least by determining that the first user performed a first swiping gesture associated with the graphical representation of the first potential match on the graphical user interface;

in response to determining that the first user expressed the positive preference indication regarding the first potential match, automatically causing the graphical user interface to display a graphical representation of a second potential match of the set of potential matches instead of the graphical representation of the first potential match;

determining that the second user has expressed a positive preference indication regarding the first user after determining that the first user expressed the positive preference indication regarding the first potential match;

determining to enable initial communication between the first user and the second user in response to determining that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user;

in response to determining to enable initial communication between the first user and the second user, causing the graphical user interface to display to the first user the graphical representation of the first potential match;

determining that the first user expressed a negative preference indication regarding a third potential match of the set of potential matches at least by determining that the first user performed a second swiping gesture associated with a graphical representation of the third potential match on the graphical user interface, the second swiping gesture different than the first swiping gesture, the third potential match corresponding to a third user;

preventing communication between the first user and the third user after determining that the first user has expressed the negative preference indication regarding the third user;

determining that the first user expressed a positive preference indication regarding a fourth potential match of the set of potential matches at least by determining that the first user performed the first swiping gesture associated with a graphical representation of the fourth potential match on the graphical user interface, the fourth potential match corresponding to a fourth user; and

preventing communication between the first user and the fourth user after determining that the fourth user has expressed a negative preference indication regarding the first user.

24. (Canceled)

25. (Previously Presented) The method of Claim 23, further comprising:

in response to determining that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user, causing the display of a graphical notification, on the graphical user interface of the first electronic device, that a match exists between the first user and the second user, the graphical notification comprising a user interface control enabling a text area to be presented to the first user.

26. (Previously Presented) The method of Claim 23, wherein the set of potential matches for the first user comprises one or more potential matches that are each associated with a geographic location within a threshold distance of a geographic location associated with the first user, the threshold distance being a stored value.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Previously Presented)   A non-transitory computer-readable medium comprising instructions that, when executed by a processor, are configured to:

electronically receive a first request for matching, the first request electronically submitted by a first user using a first electronic device;

determine a set of potential matches for the first user in response to receiving the first request;

cause the display of a graphical representation of a first potential match of the set of potential matches to the first user on a graphical user interface of the first electronic device, the first potential match corresponding to a second user;

determine that the first user expressed a positive preference indication regarding the first potential match at least by determining that the first user performed a first swiping gesture associated with the graphical representation of the first potential match on the graphical user interface;

in response to the determination that the first user expressed the positive preference indication regarding the first potential match, automatically cause the graphical user interface to display a graphical representation of a second potential match of the set of potential matches instead of the graphical representation of the first potential match;

determine that the second user has expressed a positive preference indication regarding the first user after determining that the first user expressed the positive preference indication regarding the first potential match;

determine to enable initial communication between the first user and the second user in response to the determination that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user;

in response to the determination to enable initial communication between the first user and the second user, cause the graphical user interface to display to the first user the graphical representation of the first potential match;

determine that the first user expressed a negative preference indication regarding a third potential match of the set of potential matches at least by determining that the first user performed a second swiping gesture associated with a graphical representation of the third

potential match on the graphical user interface, the second swiping gesture different than the first swiping gesture, the third potential match corresponding to a third user;

prevent communication between the first user and the third user after determining that the first user has expressed the negative preference indication regarding the third user;

determine that the first user expressed a positive preference indication regarding a fourth potential match of the set of potential matches at least by determining that the first user performed the first swiping gesture associated with a graphical representation of the fourth potential match on the graphical user interface, the fourth potential match corresponding to a fourth user; and

prevent communication between the first user and the fourth user after determining that the fourth user has expressed a negative preference indication regarding the first user.

31. (Canceled)

32. (Previously Presented)   The medium of Claim 30, further comprising instructions configured to, in response to the determination that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user, cause the display of a graphical notification, on the graphical user interface of the first electronic device, that a match exists between the first user and the second user, the graphical notification comprising a user interface control enabling a text area to be presented to the first user.

33. (Previously Presented) The medium of Claim 30, wherein the set of potential matches for the first user comprises one or more potential matches that are each associated with a geographic location within a threshold distance of a geographic location associated with the first user, the threshold distance being a stored value.

34. (Canceled)

35. (Canceled)

36. (Canceled)

37. (Previously Presented) A system for profile matching, comprising:

an interface operable to:

electronically receive a first request for matching, the first request electronically submitted by a first user using a first electronic device; and

a processor coupled to the interface and operable to:

determine a set of potential matches for the first user in response to receiving the first request;

cause the interface to display a graphical representation of a first potential match of the set of potential matches to the first user on a graphical user interface of the first electronic device, the first potential match corresponding to a second user;

determine that the interface has received a positive preference indication from the first user regarding the first potential match at least by determining that the first user performed a first swiping gesture associated with the graphical representation of the first potential match on the graphical user interface;

automatically cause the interface to remove the presentation of the first potential match from the graphical user interface in response to detecting the gesture and cause the interface to present, on the graphical user interface, a second potential match of the set of potential matches to the first user;

determine that the second user has expressed a positive preference indication regarding the first user after determining that the first user expressed the positive preference indication regarding the first potential match; and

determine to enable initial communication between the first user and the second user in response to the determination that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user;

in response to the determination to enable initial communication between the first user and the second user, cause the graphical user interface to display to the first user the graphical representation of the first potential match;

determine that the first user expressed a negative preference indication regarding a third potential match of the set of potential matches at least by determining that the first user performed a second swiping gesture associated with a graphical representation of the third

potential match on the graphical user interface, the second swiping gesture different than the first swiping gesture, the third potential match corresponding to a third user;

prevent communication between the first user and the third user after determining that the first user has expressed the negative preference indication regarding the third user;

determine that the first user expressed a positive preference indication regarding a fourth potential match of the set of potential matches at least by determining that the first user performed the first swiping gesture associated with a graphical representation of the fourth potential match on the graphical user interface, the fourth potential match corresponding to a fourth user; and

prevent communication between the first user and the fourth user after determining that the fourth user has expressed a negative preference indication regarding the first user.

38. (Canceled)

39. (Previously Presented) The system of Claim 37, the processor further operable to, in response to the determination that both the first user has expressed the positive preference indication regarding the second user and the second user has expressed the positive preference indication regarding the first user, cause the display of a graphical notification, on the graphical user interface of the first electronic device, that a match exists between the first user and the second user, the graphical notification comprising a user interface control enabling a text area to be presented to the first user.

40. (Previously Presented) The system of Claim 37, wherein the set of potential matches for the first user comprises one or more potential matches that are each associated with a geographic location within a threshold distance of a geographic location associated with the first user, the threshold distance being a stored value.

41. (Canceled)

42. (Canceled)

43. (Canceled)

Exhibit B

..ıl.. AT&T 🛜   **5:22 PM**   ✈ ⌘ 🔋
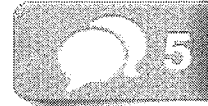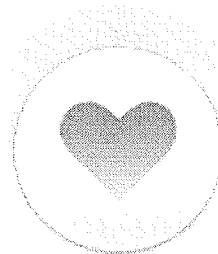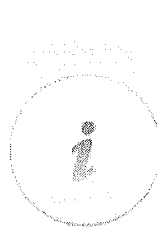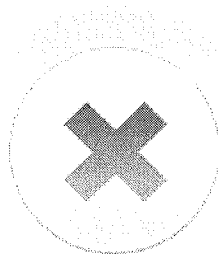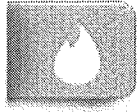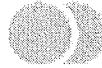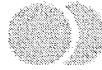
Alexa   Done

Block this User

July 17, 2012 5:16 PM

Hey! Nice meeting you. We should go out sometime

For sure...it seems like we have a lot in common. How about some organic coffee?. I know a great place!

Sounds great! See you soon

Send

Exhibit C

```
//
//  MBGameViewController.m
//  matchbox
//
//  Created by Jonathan Badeen on 6/6/12.
//  Copyright (c) 2012 Hatch Labs. All rights reserved.
//

...

@implementation MBGameViewController

#pragma mark - Game & Cards

- (void)updateGame
{
    ...

    for (UIGestureRecognizer *gestureRecognizer in
self.currentCard.gestureRecognizers) {
        gestureRecognizer.enabled = gameButtonsEnabled;
    }
}

- (MBCardView *)dequeueReusableCard
{
    MBCardView *card = [self.reusableCards lastObject];
    if (!card) {
        card = [[MBCardView alloc] init];
        ...
        [card addGestureRecognizer:[[UIPanGestureRecognizer alloc]
initWithTarget:self action:@selector(cardPanned:)]];
    } ...

    for (UIGestureRecognizer *gestureRecognizer in card.gestureRecognizers) {
        gestureRecognizer.enabled = NO;
    }

    return card;
}

- (void)cardPanned:(UIPanGestureRecognizer *)gestureRecognizer
{
    static CGPoint startLocation;
    static UIImageView *dislikeImageView;
    static UIImageView *likeImageView;

    CGFloat confirmedXTranslation = 100.0;
    CGFloat minConfirmedVelocity = 2000.0;
    CGPoint translation = [gestureRecognizer translationInView:self.currentCard];

    switch (gestureRecognizer.state) {
        case UIGestureRecognizerStatePossible:

            break;
        case UIGestureRecognizerStateBegan:
            startLocation = [gestureRecognizer locationInView:self.currentCard];
            likeImageView = [[UIImageView alloc] initWithImage:[UIImage
imageNamed:@"MBLikedStamp"]];
            likeImageView.transform = CGAffineTransformMakeRotation(M_PI_4 / 2.0 *
-1);
            likeImageView.center =
CGPointMake(CGRectGetMidX(self.currentCard.bounds) - 45.0,
```

```
CGRectGetMidY(self.currentCard.bounds) - 85.0);
        likeImageView.alpha = 0;
        [self.currentCard addSubview:likeImageView];

        dislikeImageView = [[UIImageView alloc] initWithImage:[UIImage
imageNamed:@"MBNopeStamp"]];
        dislikeImageView.transform = CGAffineTransformMakeRotation(M_PI_4 / 2.0
* 1);
        dislikeImageView.center =
CGPointMake(CGRectGetMidX(self.currentCard.bounds) + 45.0,
CGRectGetMidY(self.currentCard.bounds) - 85.0);
        dislikeImageView.alpha = 0;
        [self.currentCard addSubview:dislikeImageView];

        self.nextCard.hidden = NO;
    case UIGestureRecognizerStateChanged:
    {
        CGFloat rotationDirection = startLocation.y /
CGRectGetHeight(self.currentCard.bounds) < 0.5 ? 1 : -1;
        CATransform3D translationTransform =
CATransform3DMakeTranslation(translation.x, translation.y, 0);
        CATransform3D rotationTransform = CATransform3DMakeRotation((M_PI * 2) *
(translation.x / 5000.0), 0, 0, rotationDirection);
        CATransform3D transform = CATransform3DConcat(translationTransform,
rotationTransform);
        self.currentCard.layer.transform = transform;

        CGFloat startStampShowX = 30.0;
        likeImageView.alpha = (translation.x - startStampShowX) /
(confirmedXTranslation - startStampShowX);
        dislikeImageView.alpha = (translation.x + startStampShowX) /
(-confirmedXTranslation + startStampShowX);
    }
        break;
    case UIGestureRecognizerStateEnded:
    case UIGestureRecognizerStateCancelled:
        if (fabsf(translation.x) < confirmedXTranslation && [gestureRecognizer
velocityInView:self.currentCard].x < minConfirmedVelocity) {
            [UIView animateWithDuration:0.2 delay:0
options:UIViewAnimationCurveEaseOut animations:^{
                self.currentCard.transform = CGAffineTransformIdentity;
                likeImageView.alpha = 0;
                dislikeImageView.alpha = 0;
            } completion:^(BOOL finished) {
                self.nextCard.hidden = YES;
                [likeImageView removeFromSuperview];
                [dislikeImageView removeFromSuperview];
            }];
        } else {
            NSTimeInterval maxDuration = 0.2;
            NSTimeInterval adjustedDuration = maxDuration;
            [UIView animateWithDuration:adjustedDuration delay:0
options:UIViewAnimationCurveEaseOut animations:^{
                CGFloat direction = 1.0;
                if (translation.x > 0) {

                } else {
                    direction = -1.0;
                }
                //CGFloat rotationDirection = startLocation.y /
CGRectGetHeight(self.currentCard.bounds) < 0.5 ? -1 : 1;
                CGFloat xPos = 400.0;
                CGAffineTransform translationTransform =
```

```
                          MBGameViewController ABRIDGED
CGAffineTransformMakeTranslation(xPos * direction, [(NSNumber
*)[self.currentCard.layer valueForKeyPath:@"transform.translation.y"] floatValue]);
                //CGAffineTransform rotationTransform =
CGAffineTransformMakeRotation((M_PI * 2) * (xPos / 5000.0) * rotationDirection);
                self.currentCard.transform = translationTransform;
//CGAffineTransformConcat(translationTransform, rotationTransform);
            } completion:^(BOOL finished) {
                [likeImageView removeFromSuperview];
                [dislikeImageView removeFromSuperview];

                MBUser *user = self.currentCard.user;
                [self updateGame];
                if (translation.x < 0) {
                    [[MBMatchboxAPI sharedMatchboxAPI] dislikeUser:user];
                } else {
                    [[MBMatchboxAPI sharedMatchboxAPI] likeUser:user
completion:^(BOOL success, MBUser *user, BOOL isMatch) {
                        if (success && isMatch) {
                            MBNewMatchViewController *vc =
[[MBNewMatchViewController alloc] init];
                            vc.matchedUser = user;
                            vc.backgroundScreenshot = [UIImage
imageWithView:self.view];
                            [self presentViewController:vc animated:NO
completion:^{

                            }];
                        }
                    }];
                }
            }];
        }
        break;
    case UIGestureRecognizerStateFailed:

        break;
    default:
        break;
    }

}

...

@end
```