














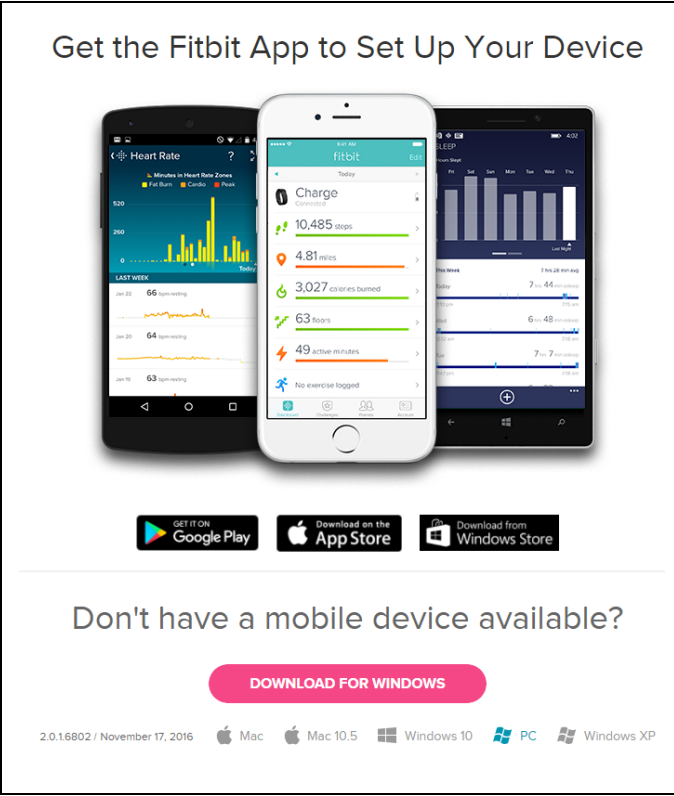


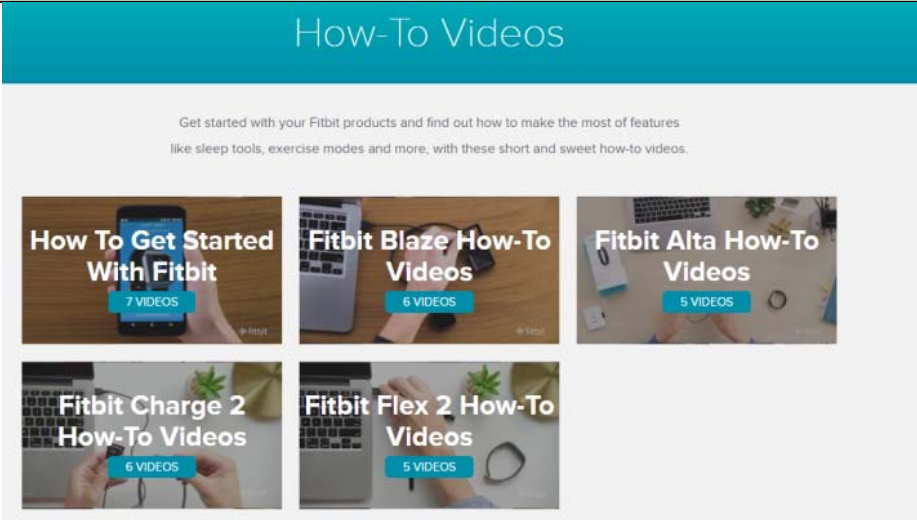

C-5


Immersion Corporation
U.S. Patent No. 8,638,301
Infringement Contentions to Fitbit, Inc.


| U.S. Patent No. 8,638,301 | Fitbit, Inc. Accused Products |
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| <p>Claim 27. A system comprising:</p> | <p>The Fitbit Accused Product, the Fitbit Charge 2, (hereinafter “the Accused Product”) provides a system.</p> <p>The Fitbit Accused Products provide system of an interaction between a fitness tracker band and a smartphone. See http://www.techinsights.com/about-techinsights/overview/blog/fitbit-charge-2-teardown/; https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf; https://www.fitbit.com/shop/charge2?color=teal&band=tpu.</p> <p>For example, the Accused Product practices a system as a fitness tracker band synchronizing with a smartphone.</p> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>Standout Features</p> <ul style="list-style-type: none">  PurePulse® Heart Rate  Multi-Sport Tracking & Connected GPS  Call, Text & Calendar Alerts  Cardio Fitness Level  Guided Breathing Sessions </div> <div style="text-align: center;"> <p>Essential Features</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>All-Day Activity</p> </div> <div style="text-align: center;">  <p>Auto Sleep Tracking & Sleep Stages</p> </div> <div style="text-align: center;">  <p>SmartTrack™ <small>Auto Exercise Recognition</small></p> </div> <div style="text-align: center;">  <p>Reminders to Move</p> </div> <div style="text-align: center;">  <p>Long Battery Life <small>Up to 5 days*</small></p> </div> </div> </div> <p>Source: Fitbit, Inc., <i>Charge 2</i>, available at https://www.fitbit.com/charge2</p> <p>In particular, the Accused Product is configured to pair or sync with a smartphone (e.g. iPhone or Android) as shown in the pictures above and below.</p> |

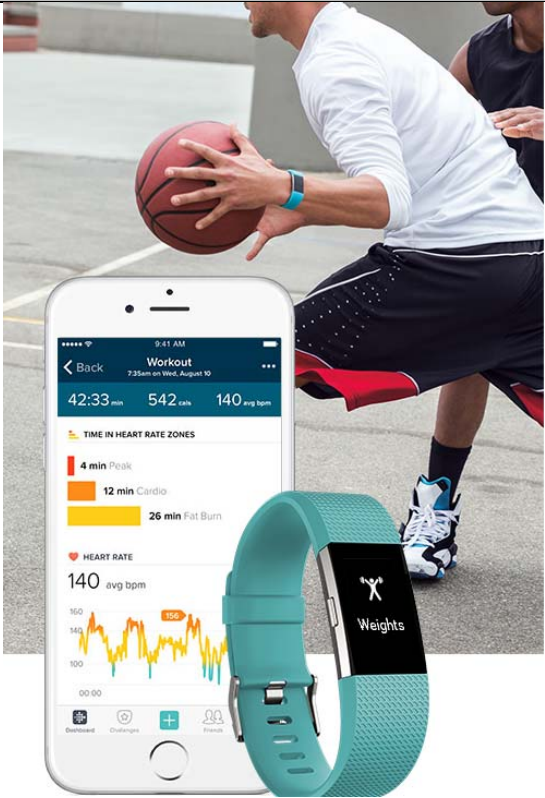



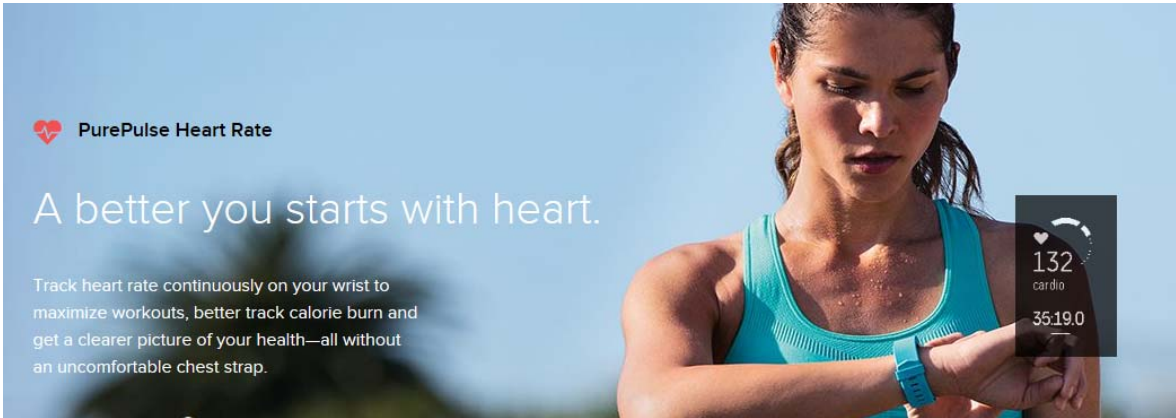
| U.S. Patent No. 8,638,301 | Fitbit, Inc. Accused Products |
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| | <div data-bbox="302 285 841 1073">  </div> <div data-bbox="922 310 1539 1129"> <p>Sync Wirelessly Charge 2 syncs wirelessly & automatically to 200+ iPhone, Android and Windows devices.</p> <p> Multi-Sport Modes Track specific exercises like running, weights or yoga to see your workout stats on display</p> <p> Connected GPS Connect to your phone's GPS to see real-time run stats like pace and distance on your wrist, and a map of your route post-workout.</p> <p> SmartTrack Charge 2 automatically records select exercises like hiking, biking, sports and more, so you get credit even if you forget to log a workout.</p> </div> <p><i>Source: Fitbit, Inc., Charge 2 Features (2017), available at https://www.fitbit.com/charge2.</i></p> <p><u>INDIRECT INFRINGEMENT</u></p> <p>Fitbit indirectly infringes the '301 patent, under 35 U.S.C. § 271(b), by inducing infringement by others, such as manufacturers, resellers, developers, and customers, and end-users, and/or providing the fitness watch and a smartphone as components for use in an system of an interaction between a fitness watch and a smartphone that practices the invention in accordance with the element-by-element mapping of features to claim elements set forth in this chart for this claim and its dependent claims.</p> <p>As the element-by-element mapping shows, Fitbit provides ample “help” documentations that instruct a user in how to use the system to perform each of the functions which are described. Further, Fitbit provides instructions on how a user can set up a device and install software such that the features are enabled.</p> <p>For example, Fitbit provides a setup website to help and support the user to “Get the Fitbit App to Set Up Your Device” at https://www.fitbit.com/setup. At that site, Fitbit specifically instructs the user to download the Fitbit App from one of several websites (e.g., Google Play, Apple App Store, or Windows Store). Further, if the user does not have a mobile device, Fitbit instructs that</p> |

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| | <p>the user can download an application for an Apple or Windows personal computer. Fitbit provides further instructions and help to set up a user's device, as well.</p> <div data-bbox="573 390 1243 1180">  </div> <p>Source: Fitbit, Inc., “Get the Fitbit App to Set Up Your Device” (2017), available at https://www.fitbit.com/setup; see also https://www.fitbit.com/app.</p> <p>Fitbit also provides answers on its website to popular topics and questions that other users have had setting up their devices. Further, Fitbit provides a support community to educate users about certain features. (See Fitbit, Inc., “Get the skinny on your Fitbit device,” http://help.fitbit.com/.) Fitbit provides web pages with answers to popular topics and questions that other users have had setting up their devices. Further, Fitbit provides a support community to educate users about certain features. In addition, users can request certain features or options to be implemented in the Fitbit’s software and/or API such as on Fitbit’s “Ideas Board” online forum, which Fitbit provides at https://community.fitbit.com/t5/Feature-Requests/idb-p/features. Fitbit also provides How-To Videos to help users, as illustrated in the screenshot shown below. (See, e.g., Fitbit Inc., “How-To Videos,” https://www.fitbit.com/how-to (“Get started with your Fitbit products and find out how to make the most of features like sleep tools, exercise modes and more, with these short and sweet how-to videos.”).)</p> |

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| | <div data-bbox="448 279 1360 795">  </div> <p data-bbox="289 848 1343 884"><i>Source:</i> Fitbit Inc., “How-To Videos,” available at https://www.fitbit.com/how-to.</p> | | | | | | | | | | |
| a processor configured to: | <p data-bbox="289 930 834 961">The Accused Product includes a processor.</p> <p data-bbox="289 999 1507 1104">For example, based on public information, the Accused Product appears to have STMicroelectronics Microcontroller. Further, the Microcontroller (i.e. processor) is configured to perform various instructions as listed below.</p> <p data-bbox="289 1142 1507 1289">The <i>Fitbit Charge 2 Teardown</i> and <i>Charge 2 Specs</i> pictures appear to show the components of the Accused Product containing a microcontroller (i.e. processor) and different types of sensors (e.g. accelerometer, oscillator). The microcontroller (i.e. processor), identified in the below picture, is configured to perform various instructions.</p> <div data-bbox="355 1335 518 1894">  </div> <table data-bbox="802 1327 1471 1707"> <tr> <th></th><th>Charge 2</th></tr> <tr> <td>Bluetooth</td><td>STMicroelectronics BLUENRGCS</td></tr> <tr> <td>Power Management</td><td>Texas Instruments BQ25120YFP</td></tr> <tr> <td>Accelerometer</td><td>STMicroelectronics LIS2DH</td></tr> <tr> <td>Oscillator</td><td>SiTime SIT1532</td></tr> </table> | | Charge 2 | Bluetooth | STMicroelectronics BLUENRGCS | Power Management | Texas Instruments BQ25120YFP | Accelerometer | STMicroelectronics LIS2DH | Oscillator | SiTime SIT1532 |
| | Charge 2 | | | | | | | | | | |
| Bluetooth | STMicroelectronics BLUENRGCS | | | | | | | | | | |
| Power Management | Texas Instruments BQ25120YFP | | | | | | | | | | |
| Accelerometer | STMicroelectronics LIS2DH | | | | | | | | | | |
| Oscillator | SiTime SIT1532 | | | | | | | | | | |


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| | <p>Source: TechInsights Inc., <i>Fitbit Charge 2 Teardown</i> (2017), available at http://www.techinsights.com/about-techinsights/overview/blog/fitbit-charge-2-teardown/.</p> <div data-bbox="354 405 516 961">  </div> <div data-bbox="732 405 1453 1039"> <p>What's Included</p> <ul style="list-style-type: none"> • Fitbit Charge 2 tracker • Charge 2 classic wristband • Charging cable <p>Sensors & Components</p> <ul style="list-style-type: none"> • Optical heart rate tracker • 3-axis accelerometer • Altimeter • Vibration motor <p>Display</p> <ul style="list-style-type: none"> • OLED <p>Heart Rate</p> <p>Like all heart rate tracking technologies, accuracy is affected by physiology, location of device,</p> <p>Battery and Power</p> <p>We recommend charging your device every few days to ensure that you're always tracking.</p> <p>Battery life up to 5 days. Battery life and charge cycles vary with use, settings, and other factor</p> <ul style="list-style-type: none"> • Battery type: Lithium-polymer • Charge time: One to two hours • Radio transceiver: Bluetooth 4.0 </div> <p>Source: Fitbit, Inc., <i>Charge 2 Specs</i> (2017), available at https://www.fitbit.com/shop/charge2?color=teal&band=tpu.</p> |
| <p>receive a first sensor signal from a first sensor, the first sensor configured to detect a movement of a first mobile device;</p> | <p>The Accused Product receives receive a first sensor signal from a first sensor, the first sensor configured to detect a movement of a first mobile device.</p> <p>For example, the Accused Product receives sensor signals from at least the 3-axis accelerometer sensor (i.e. first sensor). Further, this sensor is configured to detect and track a user's movement or a variety of statistics, including steps taken, on the Accused Product (i.e. first mobile device).</p> <p>The pictures from the <i>Charge 2 Specs</i> and the <i>Charge 2 Product Manual</i> below show the accelerometer sensor, which tracks a user motion patterns. The <i>Charge 2 Features</i> picture further illustrates that that the Accused Product may detect, e.g., by way of the MEMS 3-axis accelerometer, movement from a user and it tracks the user's stats.</p> |

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| | <div data-bbox="354 289 516 850">  </div> <div data-bbox="743 289 1464 928"> <p>What's Included</p> <ul style="list-style-type: none"> • Fitbit Charge 2 tracker • Charge 2 classic wristband • Charging cable <p>Sensors & Components</p> <ul style="list-style-type: none"> • Optical heart rate tracker • 3-axis accelerometer • Altimeter • Vibration motor <p>Display</p> <ul style="list-style-type: none"> • OLED <p>Heart Rate</p> <p>Like all heart rate tracking technologies, accuracy is affected by physiology, location of device,</p> <p>Battery and Power</p> <p>We recommend charging your device every few days to ensure that you're always tracking.</p> <p>Battery life up to 5 days. Battery life and charge cycles vary with use, settings, and other factor</p> <ul style="list-style-type: none"> • Battery type: Lithium-polymer • Charge time: One to two hours • Radio transceiver: Bluetooth 4.0 </div> <p data-bbox="302 947 1065 1016">Source: Fitbit, Inc., <i>Charge 2 Specs</i> (2017), available at https://www.fitbit.com/shop/charge2?color=teal&band=tpu.</p> <h2 data-bbox="315 1073 500 1119">Sensors</h2> <p data-bbox="315 1159 980 1190">Your Charge 2 contains the following sensors:</p> <ul data-bbox="363 1230 1357 1339" style="list-style-type: none"> • A MEMS 3-axis accelerometer, which tracks your motion patterns • An altimeter, which tracks altitude changes • An optical heart rate tracker <p data-bbox="302 1394 1377 1463">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 27, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |


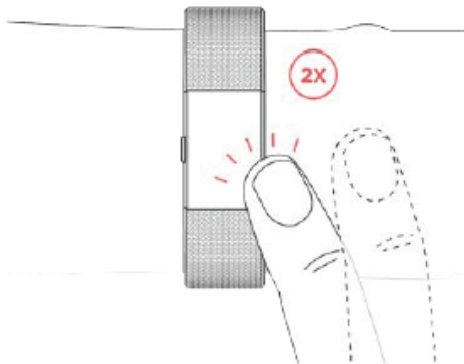
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| | <div data-bbox="300 279 841 1071">  </div> <div data-bbox="922 310 1513 1117"> <p>Sync Wirelessly Charge 2 syncs wirelessly & automatically to 200+ iPhone, Android and Windows devices.</p> <p> Multi-Sport Modes Track specific exercises like running, weights or yoga to see your workout stats on display</p> <p> Connected GPS Connect to your phone's GPS to see real-time run stats like pace and distance on your wrist, and a map of your route post-workout.</p> <p> SmartTrack Charge 2 automatically records select exercises like hiking, biking, sports and more, so you get credit even if you forget to log a workout.</p> </div> <p><i>Source: Fitbit, Inc., Charge 2 Features (2017), available at https://www.fitbit.com/charge2.</i></p> <div data-bbox="300 1239 1469 1654">  </div> <p><i>Source: Fitbit, Inc., Charge 2 Features (2017), available at https://www.fitbit.com/charge2.</i></p> |

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| | <p data-bbox="326 279 1430 336">Automatic tracking with Fitbit Charge 2</p> <p data-bbox="326 371 1471 434">Your Charge 2 continuously tracks a variety of stats whenever you have it on. The information is transferred to your dashboard every time you sync your tracker.</p> <p data-bbox="326 495 797 543">Viewing all-day stats</p> <p data-bbox="326 577 1487 640">Press the button to wake up your Charge 2 and see the time of day. Tap the screen to see each of these all-day stats:</p> <ul data-bbox="370 674 670 926" style="list-style-type: none"> • Steps taken • Current heart rate • Distance covered • Calories burned • Floors climbed • Active minutes • Hourly activity <p data-bbox="326 957 1479 1020">On your Fitbit dashboard you can find other information captured by your tracker, such as:</p> <ul data-bbox="370 1054 1503 1255" style="list-style-type: none"> • Your sleep history, including hours slept and sleep patterns • The hours of your day that you were stationary vs. active (walked at least 250 steps) • Your exercise history and progress towards a weekly exercise goal • Your beats per minute (BPM), average resting heart rate, and time spent in heart-rate zones <hr data-bbox="326 1289 1503 1293"/> <p data-bbox="326 1306 1081 1337">Note: Charge 2 resets at midnight to begin a new day.</p> <hr data-bbox="326 1352 1503 1356"/> <p data-bbox="302 1362 1377 1432">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 12, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |


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| | <h2 data-bbox="329 291 1065 338">How does my tracker count steps?</h2> <hr data-bbox="329 373 1490 382"/> <p data-bbox="329 415 1471 632">Fitbit trackers use a 3-axis accelerometer to understand your motions. An accelerometer is a device that turns movement (acceleration) into digital measurements (data) when attached to the body. By analyzing acceleration data, our trackers provide detailed information about frequency, duration, intensity, and patterns of movement to determine your steps taken, distance traveled, calories burned, and sleep quality. The 3-axis implementation allows the accelerometer to measure your motion in any way that you move, making its activity measurements more precise than older, single-axis pedometers.</p> <p data-bbox="329 674 1490 968">Fitbit trackers have a finely tuned algorithm for step counting. The algorithm is designed to look for motion patterns that are most indicative of people walking. The algorithm determines whether a motion's size is large enough by setting a threshold. If the motion and its subsequent acceleration measurement meet the threshold, the motion will be counted as a step. If the threshold is not met, the motion won't be counted as a step. Other factors can create enough acceleration to meet our threshold and cause some over counting of steps, such as riding on a bumpy road. Equally, it's possible for the algorithm to undercount (not meet the required acceleration threshold). Examples here include walking on a very soft surface such as a plush carpet.</p> <p data-bbox="302 978 1490 1052"><i>Source: Fitbit, Inc., Fitbit Help - How does my tracker count steps? (Last updated: March 14, 2017), available at https://help.fitbit.com/articles/en_US/Help_article/1143.</i></p> |
| <p>receive a second sensor signal from a second sensor, the second sensor configured to detect an interaction with the first mobile device;</p> | <p data-bbox="285 1163 1511 1268">The Accused Products provide a processor that is configured to receive a second sensor signal from a second sensor, the second sensor configured to detect an interaction with the first mobile device.</p> <p data-bbox="285 1310 1490 1457">For example, the Accused Products receive another signal (i.e. second sensor signal) from the tap display input device (i.e. second sensor). Further, the Accused Product the tap display (i.e. second sensor) configured to detect an interaction with the Accused Product (e.g. first mobile device).</p> <p data-bbox="285 1499 1523 1635">As shown in the pictures below, the Accused Product provides a tap display, which is seen in the <i>Charge 2 Specs</i> and the <i>Charge 2 Product Manual</i>. In the following <i>Charge 2 Product Manual</i> picture, the picture describes the tap display interaction with the Accused Product, which makes sure that the tracker can communicate with the user.</p> |

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| | <div data-bbox="354 289 516 850">  </div> <div data-bbox="816 289 1526 934"> <p>What's Included</p> <ul style="list-style-type: none"> • Fitbit Charge 2 tracker • Charge 2 classic wristband • Charging cable <p>Sensors & Components</p> <ul style="list-style-type: none"> • Optical heart rate tracker • 3-axis accelerometer • Altimeter • Vibration motor <p>Display</p> <ul style="list-style-type: none"> • OLED <p>Heart Rate</p> <p>Like all heart rate tracking technologies, accuracy is affected by physiology, location of device,</p> <p>Battery and Power</p> <p>We recommend charging your device every few days to ensure that you're always tracking.</p> <p>Battery life up to 5 days. Battery life and charge cycles vary with use, settings, and other factor</p> <ul style="list-style-type: none"> • Battery type: Lithium-polymer • Charge time: One to two hours • Radio transceiver: Bluetooth 4.0 </div> <p data-bbox="300 945 1068 1018">Source: Fitbit, Inc., <i>Charge 2 Specs</i> (2017), available at https://www.fitbit.com/shop/charge2?color=teal&band=tpu.</p> <h2 data-bbox="316 1039 511 1102">Display</h2> <p data-bbox="316 1134 966 1176">The Charge 2 has an OLED tap display.</p> <p data-bbox="300 1218 1377 1291">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 28, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> <h2 data-bbox="316 1333 576 1396">Navigation</h2> <p data-bbox="316 1417 1071 1459">Charge 2 has an OLED tap display and one button.</p> <h3 data-bbox="316 1522 795 1564">Waking a dimmed screen</h3> <p data-bbox="316 1596 1282 1638">When you're not using Charge 2 the display is off. To wake it up:</p> <ul data-bbox="365 1669 665 1701" style="list-style-type: none"> • Press the button |

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| | <p data-bbox="321 285 805 321">Using the clock and menus</p> <p data-bbox="321 352 1482 415">The default or “home” screen is a clock, which is available in several styles. On the clock screen you can:</p> <ul data-bbox="370 453 1429 617" style="list-style-type: none"> • Tap to see your steps taken, heart rate, distance, calories burned, floors climbed, active minutes, and hourly activity. • Press the button to move to through the menus. • Press and hold the button to turn on or turn off notifications, including reminders to move. <div data-bbox="873 646 1032 932" data-label="Image"> </div> <p data-bbox="321 966 1487 1029">You can customize the both the stats and menus shown on your tracker. For more information, see help.fitbit.com.</p> <p data-bbox="321 1060 1466 1150">After viewing the clock screen, you can cycle through the different menus to see information or use different functions on your tracker. The following menus are available:</p> <ul data-bbox="370 1188 1528 1780" style="list-style-type: none"> • Heart rate—Shows your current heart rate. Tap to see your resting heart rate. • Exercise—Tap to move through your exercise choices, then press and hold the button to start the selected exercise. Press and hold the button again to end the exercise. • Relax—Tap to choose a guided breathing session. Press and hold the button to start the session. • Stopwatch—Press and hold the button to start the stopwatch. Press the button to stop and resume the stopwatch. Press and hold the button again to reset the stopwatch. • Alarms—Tap to scroll through any alarms you’ve set. Press and hold the button to disable or enable any alarms. The alarm screen appears only when you have alarms set. • Notifications—Press and hold the button to turn on or turn off notifications. If you turn off notifications, your tracker will not alert you when you receive a phone call, text message, or calendar alert on your mobile device, nor will you receive reminders to move. • Battery—Shows the percentage of battery life remaining on your tracker. The battery screen appears only if you turn it on in your tracker settings. |

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| | <div data-bbox="344 298 1523 636">  <div> Heart rate 86 BPM </div> <div> Run Exercise </div> <div> Relax 2 MIN </div> <div> Stopwatch </div> <div> 7:00 AM TUE Alarms </div> <div> Notificat ON ns </div> <div> 85% Battery </div> </div> <p data-bbox="300 764 677 802">Tapping your tracker</p> <p data-bbox="300 835 1466 926">For best results, tap your tracker where the screen meets the band as shown. To wake up your tracker, double-tap it; to flip through your stats or the menus, single-tap it.</p> <div data-bbox="664 1056 1125 1417">  </div> <p data-bbox="300 1455 1466 1518">Charge 2 doesn't respond to swipes. You must use the button or firmly and quickly tap the screen.</p> <p data-bbox="300 1535 1377 1606">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 8, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |
| receive a first data signal from a network interface, the network | <p data-bbox="289 1686 1485 1791">The Accused Products provide a processor configured to receive a first data signal from a network interface, the network interface configured to receive signals transmitted by a second mobile device.</p> <p data-bbox="289 1829 1485 1896">For example, the Accused Products include a processor configured to receive data signals (i.e. data signal) via a Bluetooth transceiver (i.e. network interface). The Bluetooth transceiver is</p> |

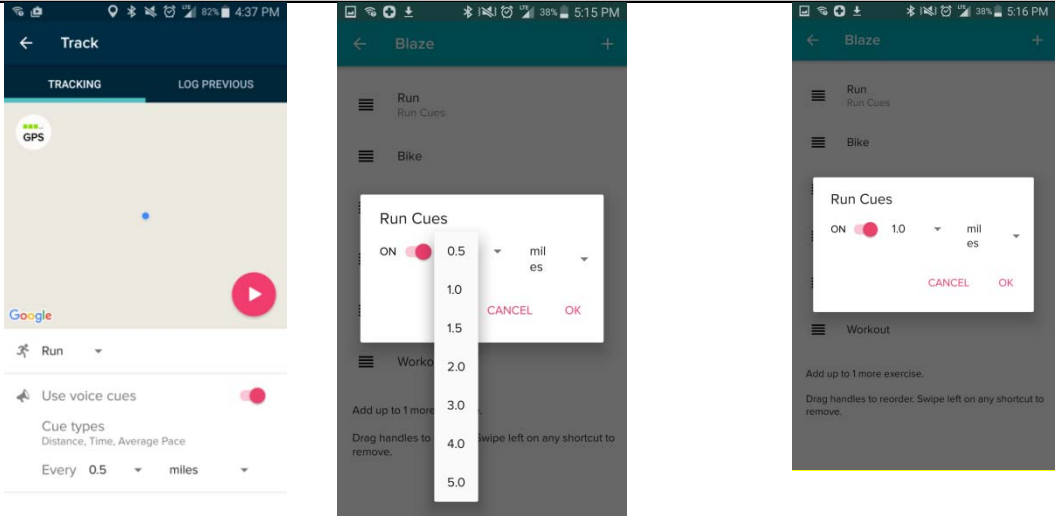
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| <p>interface configured to receive signals transmitted by a second mobile device;</p> | <p>configured to receive signals transmitted by a smartphone (i.e. second mobile device), e.g., the Fitbit app is available for more than 200 mobile devices that support iOS, Android, and Windows 10 operating systems. Specifically, for example, the processor in the Accused Product receives data via the Bluetooth transceiver when the user of the Fitbit application changes the daily step count goal from 10,000 steps per day to 20,000 steps per day.</p> <p>Collectively, the pictures below show and illustrate that the Accused Product contains a processor configured to receive data signals via Bluetooth transceiver, and the transceiver is configured to receive signals transmitted, e.g., synchronized, by another mobile device, such as a smartphone (i.e. iPhone or Android).</p> <div data-bbox="300 680 837 1472"> </div> <div data-bbox="919 680 1541 1493"> <p>Sync Wirelessly Charge 2 syncs wirelessly & automatically to 200+ iPhone, Android and Windows devices.</p> <p>Multi-Sport Modes Track specific exercises like running, weights or yoga to see your workout stats on display</p> <p>Connected GPS Connect to your phone's GPS to see real-time run stats like pace and distance on your wrist, and a map of your route post-workout.</p> <p>SmartTrack Charge 2 automatically records select exercises like hiking, biking, sports and more, so you get credit even if you forget to log a workout.</p> </div> <p>Source: Fitbit, Inc., <i>Charge 2 Features</i> (2017), available at https://www.fitbit.com/charge2.</p> |





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|  | | Charge 2 |
| | Bluetooth | STMicroelectronics BLUENRGCSF |
| | Power Management | Texas Instruments BQ25120YFP |
| | Accelerometer | STMicroelectronics LIS2DH |
| | Oscillator | SiTime SIT1532 |
| | | |
| <p>Source: TechInsights Inc., <i>Fitbit Charge 2 Teardown</i> (2017), available at http://www.techinsights.com/about-techinsights/overview/blog/fitbit-charge-2-teardown/.</p> <h2>Wireless technology</h2> <p>Charge 2 contains a Bluetooth 4.0 radio transceiver.</p> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf</p> <h2>Syncing your tracker data to your Fitbit account</h2> <p>When you start using your Charge 2 you'll need to regularly sync it with your Fitbit dashboard. The dashboard is where you'll track progress, see your exercise history, track your sleep patterns, participate in challenges, and much more. We recommend syncing at least once a day.</p> <p>The Fitbit apps and Fitbit Connect use Bluetooth Low Energy (BLE) technology to sync with your Fitbit tracker.</p> <p>Each time you open the Fitbit app it syncs automatically if the paired tracker is nearby. You can also use the Sync Now option in the app at any time.</p> <p>Fitbit Connect syncs every 15 minutes if the tracker is within 20 feet of the computer. To force a sync, click the Fitbit Connect icon located near the date and time on your computer and choose Sync Now.</p> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> | | |

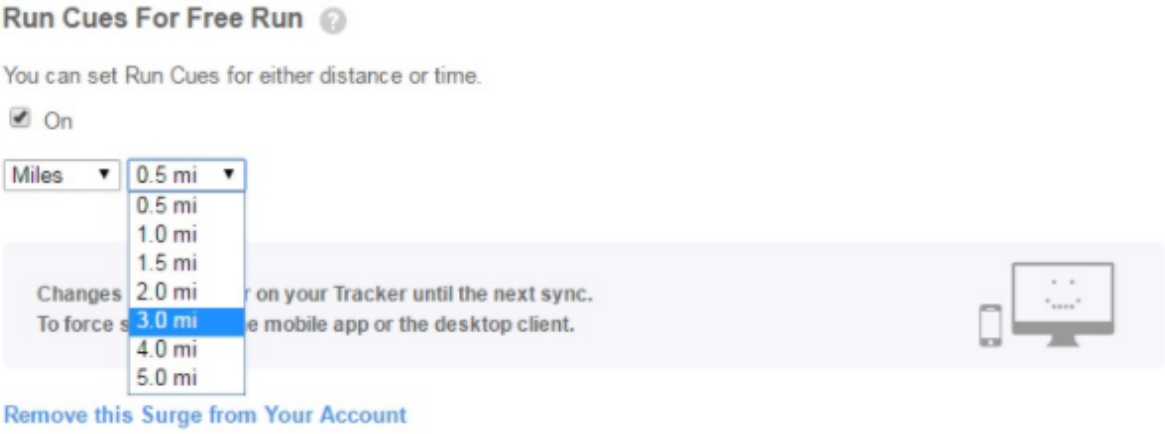
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| | <h2 data-bbox="326 310 1430 373">Automatic tracking with Fitbit Charge 2</h2> <p data-bbox="326 405 1471 468">Your Charge 2 continuously tracks a variety of stats whenever you have it on. The information is transferred to your dashboard every time you sync your tracker.</p> <h3 data-bbox="326 531 797 583">Viewing all-day stats</h3> <p data-bbox="326 615 1487 678">Press the button to wake up your Charge 2 and see the time of day. Tap the screen to see each of these all-day stats:</p> <ul data-bbox="370 709 670 961" style="list-style-type: none"> • Steps taken • Current heart rate • Distance covered • Calories burned • Floors climbed • Active minutes • Hourly activity <p data-bbox="326 993 1479 1056">On your Fitbit dashboard you can find other information captured by your tracker, such as:</p> <ul data-bbox="370 1087 1503 1297" style="list-style-type: none"> • Your sleep history, including hours slept and sleep patterns • The hours of your day that you were stationary vs. active (walked at least 250 steps) • Your exercise history and progress towards a weekly exercise goal • Your beats per minute (BPM), average resting heart rate, and time spent in heart-rate zones <hr data-bbox="326 1329 1503 1333"/> <p data-bbox="326 1344 1081 1375">Note: Charge 2 resets at midnight to begin a new day.</p> <hr data-bbox="326 1386 1503 1390"/> <p data-bbox="302 1400 1377 1474"><i>Source:</i> Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |

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| | <p data-bbox="310 291 967 338">Tracking a daily activity goal</p> <p data-bbox="310 373 1446 436">Your Charge 2 tracks your progress towards a daily activity goal of your choice. When you reach your goal, the tracker vibrates and shows a celebration.</p> <p data-bbox="310 499 599 537">Choosing a goal</p> <p data-bbox="310 571 1479 695">By default your goal is 10,000 steps per day. You can change the goal to distance traveled, calories burned, active minutes, or floors climbed and select the corresponding value you prefer. For example, you may want to keep steps as your goal but change the target from 10,000 to 20,000 steps.</p> <p data-bbox="310 758 688 795">Seeing goal progress</p> <p data-bbox="310 829 1511 892">A goal progress bar helps keep you motivated. The filled in portion of the bar shown below indicates that you're more than halfway to your goal.</p>  <p data-bbox="302 1220 1373 1289">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf</p> <p data-bbox="289 1329 1528 1581">As another example, the Accused Products include a processor configured to receive data signals via a Bluetooth transceiver, a network interface. The Bluetooth transceiver is configured to receive signals transmitted by a smartphone (i.e. a second mobile device) (e.g., The Fitbit app is available for more than 200 mobile devices that support iOS, Android, and Windows 10 operating systems.). Specifically, the processor in the Accused Product receives data via the Bluetooth transceiver when the user of the Fitbit application (“app”) configures the Run Cues, which mark laps based on Fitbit app settings.</p> |

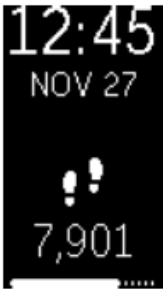
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| | <div data-bbox="630 279 1166 1071" data-label="Image"> </div> <p data-bbox="480 1073 1239 1142">Source: Fitbit, Inc., <i>Charge 2 Features</i> (2017), available at https://www.fitbit.com/charge2.</p> <p data-bbox="285 1182 1511 1360">Based on public information, Fitbit Charge 2 app appears to have same or similar feature Run app as the Fitbit Blaze. As an example, the Fitbit app on the mobile device (e.g. Android or Apple smartphone) connects to the Accused Product via Bluetooth. Next, the Fitbit app on the mobile device transmits the Run Cues mark laps to the Accused Product Run app for the user as shown below.</p> |

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| | <div data-bbox="316 279 1365 791"></div> <p data-bbox="302 821 1227 856"><i>Source: Fitbit, Inc., Fitbit Blaze Android Application “Exercise” (2017).</i></p> <p data-bbox="287 894 1487 1003">Further, the Fitbit App, for example, synchronizes (“syncs”) with the Accused Product. As shown below, the Fitbit App on the smartphone transfers data to the Accused Product, such as settings or configurations, via Bluetooth Low Energy (BLE) technology.</p> |




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| | <p>WHAT IS SYNCING?</p> <p><i>Syncing</i> is the process that transfers the data your tracker collects to your Fitbit dashboard. The dashboard is where you can track your progress, see how you slept, set goals, log food and water, challenge friends, and much more. Your tracker uses Bluetooth Low Energy (BLE) technology to sync with mobile devices and certain computers. The instructions in How do I set up my tracker? explain how to make sure your Fitbit tracker can sync with the mobile device or computer you prefer.</p> <p>WHEN DOES MY TRACKER SYNC?</p> <p>If your tracker is paired to the Fitbit app on a mobile device, it syncs every time you open the app. It can also sync periodically throughout the day if you have All-Day sync turned on. If you sync your tracker with a computer and Fitbit Connect, it syncs automatically every 15 to 30 minutes assuming the tracker and computer are in proximity, and the dongle is plugged in, if applicable.</p> <p>You can also initiate a sync whenever you like if your tracker is nearby. If you're using an iOS or Android mobile device, you can sync your tracker from the Fitbit app dashboard by touching your tracker image at the top of the screen and pulling down. Choose a section to see syncing instructions.</p> <hr/> <p>IOS DEVICES </p> <hr/> <p>ANDROID DEVICES </p> <hr/> <p>WINDOWS 10 MOBILE DEVICES AND COMPUTERS </p> <hr/> <p>MAC OR WINDOWS 8.1 COMPUTERS </p> <hr/> <p>Source: Fitbit, Inc., <i>How do Fitbit devices sync their data?</i> (2017), available at http://help.fitbit.com/articles/en_US/Help_article/1877?p=charge_2&c=Topics%3AAndroid&l=en_US&fs=Search&pn=1.</p> |


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| | <p>- Scroll down and you can adjust it where it says "Run cues for free run"</p>  <p>Then remember you have to sync to save those changes. 🐱</p> <p>Source: Fitbit, Inc., <i>Fitbit Community, Product Help Forums "Surge," "Running Cues" provided by Fitbit Community Moderator "HeydyFitbit" (2017), available at https://community.fitbit.com/t5/Surge/Running-cues/td-p/1514934.</i></p> |
| <p>determine a change in a display signal based at least in part on the first data signal and the second sensor signal;</p> | <p>The Accused Product includes a processor configured to determine a change in a display signal based at least in part on the first data signal and the second sensor signal.</p> <p>For example, the Accused Product tracks the progress towards a daily goal as the data. In particular, the Accused Product uses its processor that is configured to determine the changes in the screens (i.e. display signal) based on the user's steps and statistics on the route and GPS (i.e. first data signal) and the user's interaction or navigation with the tap display input device (i.e. second sensor signal) that sets up the a tracking exercise, steps taken, or Rue Cue.</p> <p>The pictures below show that the Accused Product allows for the user to interact with the touchscreen and tracks a variety of user's stats. Further, the pictures provide how the user can navigate the exercise menu on the Accused Product, and as an example, the Accused Product may determine a change in the display screen based on the user's daily activity goal.</p> |

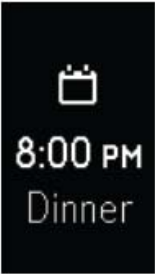
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| | <p data-bbox="326 279 1430 336">Automatic tracking with Fitbit Charge 2</p> <p data-bbox="326 371 1471 434">Your Charge 2 continuously tracks a variety of stats whenever you have it on. The information is transferred to your dashboard every time you sync your tracker.</p> <p data-bbox="326 495 797 543">Viewing all-day stats</p> <p data-bbox="326 577 1487 640">Press the button to wake up your Charge 2 and see the time of day. Tap the screen to see each of these all-day stats:</p> <ul data-bbox="370 674 670 926" style="list-style-type: none"> • Steps taken • Current heart rate • Distance covered • Calories burned • Floors climbed • Active minutes • Hourly activity <p data-bbox="326 957 1479 1020">On your Fitbit dashboard you can find other information captured by your tracker, such as:</p> <ul data-bbox="370 1054 1503 1255" style="list-style-type: none"> • Your sleep history, including hours slept and sleep patterns • The hours of your day that you were stationary vs. active (walked at least 250 steps) • Your exercise history and progress towards a weekly exercise goal • Your beats per minute (BPM), average resting heart rate, and time spent in heart-rate zones <hr data-bbox="326 1289 1503 1293"/> <p data-bbox="326 1306 1081 1337">Note: Charge 2 resets at midnight to begin a new day.</p> <hr data-bbox="326 1352 1503 1356"/> <p data-bbox="302 1362 1377 1432">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |

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| | <p data-bbox="310 289 971 338">Tracking a daily activity goal</p> <p data-bbox="310 371 1446 434">Your Charge 2 tracks your progress towards a daily activity goal of your choice. When you reach your goal, the tracker vibrates and shows a celebration.</p> <p data-bbox="310 497 600 537">Choosing a goal</p> <p data-bbox="310 569 1482 695">By default your goal is 10,000 steps per day. You can change the goal to distance traveled, calories burned, active minutes, or floors climbed and select the corresponding value you prefer. For example, you may want to keep steps as your goal but change the target from 10,000 to 20,000 steps.</p> <p data-bbox="310 756 690 795">Seeing goal progress</p> <p data-bbox="310 827 1511 890">A goal progress bar helps keep you motivated. The filled in portion of the bar shown below indicates that you're more than halfway to your goal.</p> <div data-bbox="836 919 998 1205">  <p>The image shows a black Fitbit Charge 2 screen. At the top, the time '12:45' is displayed in white. Below the time is the date 'NOV 27'. In the center, there are two white exclamation marks '!!'. At the bottom, the step count '7,901' is shown. A small progress bar is visible at the very bottom of the screen, with a portion filled in white.</p> </div> <p data-bbox="302 1218 1377 1287">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |

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| | <h2 data-bbox="321 285 1174 338">Exercising with Fitbit Charge 2</h2> <p data-bbox="321 373 1507 499">Charge 2 uses SmartTrack™ to automatically detect and record select exercises. For more precision or to see real-time stats and a workout summary right on your wrist, you can tell your tracker when exercise starts and stops. All workouts appear in your exercise history for deeper analysis and comparison.</p> <h3 data-bbox="321 562 727 615">Using SmartTrack</h3> <p data-bbox="321 642 1507 768">SmartTrack ensures you get credit for your most active moments of the day. When you sync your tracker after a SmartTrack-detected exercise, you can find several stats in your exercise history including duration, calories burned, impact on your day, and more.</p> <p data-bbox="321 795 1507 921">By default, SmartTrack detects continuous movement at least 15 minutes in length. You can increase or decrease the minimum duration or disable SmartTrack for one or more exercise types. For more information about customizing and using SmartTrack, see help.fitbit.com.</p> <h3 data-bbox="321 984 878 1037">Using the Exercise menu</h3> <p data-bbox="321 1064 1507 1148">You can choose from over a dozen exercise types to customize the Exercise menu with your favorites. Some exercises, like running, biking, and hiking have a GPS option.</p> <p data-bbox="321 1184 1451 1226">For more information about customizing your Exercise menu, see help.fitbit.com.</p> <hr/> <p data-bbox="321 1262 1507 1388">Note: Charge 2 does not have built-in GPS. Its <i>connected GPS</i> feature works with the GPS sensors on your nearby mobile device to give you real-time pace and distance information, as well as recording a map of your route. Turning on connected GPS enables more precise tracking of your exercise stats.</p> <p data-bbox="418 1419 1360 1451">Connected GPS is not available with the Fitbit app for Windows 10.</p> <hr/> <h3 data-bbox="321 1524 643 1566">GPS requirements</h3> <p data-bbox="321 1593 1354 1656">Connected GPS is available for iOS and Android mobile devices. For more information about setting up connected GPS, see help.fitbit.com.</p> <ol data-bbox="363 1688 1495 1808" style="list-style-type: none"> 1. If you're going to use connected GPS, make sure Bluetooth and GPS are both enabled on your phone and that your tracker is paired to your phone. 2. Make sure the Fitbit app has permission to use GPS or location services. 3. Verify that connected GPS is turned on for the exercise in the Fitbit app. |

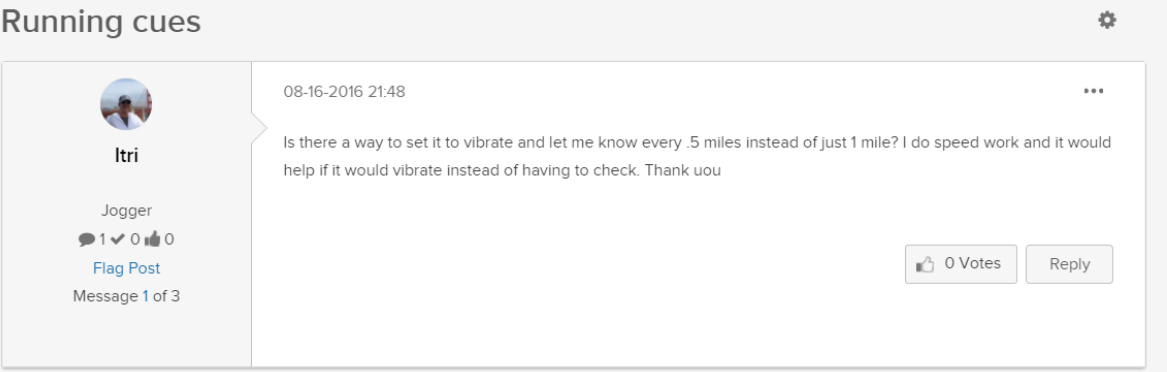
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| | <p data-bbox="302 289 618 325">Tracking exercise</p> <p data-bbox="302 359 597 386">To track an exercise:</p> <ol data-bbox="347 422 1528 611" style="list-style-type: none"> 1. On your tracker, press the button until you get to the Exercise screen and then tap to find the exercise of your choice. 2. Press and hold the button to start the exercise. If you see a phone icon at the top, that exercise offers connected GPS and your device is connected to a GPS signal. If the phone icon is crossed out, a GPS connection isn't available. An animated dashed line means your device is trying to find a GPS signal. <div data-bbox="493 674 656 961">  </div> <p data-bbox="448 989 704 1016">GPS signal connected</p> <div data-bbox="883 674 1045 961">  </div> <p data-bbox="821 989 1110 1016">GPS signal disconnected</p> <div data-bbox="1273 674 1435 961">  </div> <p data-bbox="1208 989 1500 1016">Searching for GPS signal</p> <ol data-bbox="347 1052 1528 1331" style="list-style-type: none"> 3. During your workout, tap your tracker to scroll through your real-time stats or check the time of day. 4. To pause your workout, press the button. Then press the button again to resume the exercise." 5. When you're done with your workout, press and hold the button to stop recording. You'll see a flag icon and a congratulatory message. 6. Press the button to see a summary of your results. With each button press you'll cycle to a different set of stats. You can view your exercise summary one time. <p data-bbox="302 1373 1511 1436">Syncing your tracker stores the workout in your exercise history. There you can find additional stats and see your route if you used connected GPS.</p> <p data-bbox="302 1467 1377 1535">Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> <p data-bbox="289 1577 1479 1682">In another example, the Accused Product displays the running app and tracks the user's miles and time. When the user reaches a Run Cue, the display changes to indicate that the user has reached a mark lap (e.g. 1 mile) based on that Run Cue, as illustrated below.</p> |

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| |  <p>Source: Fitbit, Inc., <i>Charge 2</i>, available at https://www.fitbit.com/charge2.</p> |
| <p>determine a haptic effect based at least in part on the first data signal; and</p> | <p>The Accused Products include a processor configured to determine a haptic effect based at least in part on the first data signal.</p> <p>For example, the Accused Products provide a processor configured to determine a particular haptic feedback, e.g., vibration or tactile pulse pattern (i.e. haptic effect) based at least in part on the user's stats (i.e. first data signal).</p> <p>The following pictures below show that the Accused Product contains haptic feedback, via a vibration motor. As an example, the pictures below show that the Accused Product may determine a haptic feedback based on the user's stat, such as the user meeting the 10,000 steps goal.</p> <p>Haptic feedback</p> <p>Charge 2 contains a vibration motor, for alarms, goals, notifications, and reminders.</p> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |

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| | <div data-bbox="347 285 1198 401"> <h2>Receiving Call, Text, & Calendar Notifications</h2> </div> <div data-bbox="347 436 1490 590"> <p>Over 200 compatible iOS and Android mobile devices let you receive incoming phone call, text message, and calendar event notifications on your Charge 2 when your mobile device is nearby. To determine whether your device supports this feature, go to http://www.fitbit.com/devices. Note that notifications aren't available with the Fitbit app for Windows 10.</p> </div> <div data-bbox="347 646 847 695"> <h3>Calendar requirements</h3> </div> <div data-bbox="347 726 1507 816"> <p>Your tracker will show calendar events and any information sent from your calendar app to your mobile device. Note that if your calendar app does not send notifications to your mobile device, you won't receive notifications on your tracker.</p> </div> <div data-bbox="852 844 1006 1115">  </div> <div data-bbox="347 1146 1500 1239"> <p>If you have an iOS device, your Charge 2 shows notifications from all calendars synced to the default iOS Calendar app. If you have a third-party calendar that is not synced to the iOS Calendar app, you won't see notifications from that calendar.</p> </div> <div data-bbox="347 1266 1484 1358"> <p>If you have an Android device, your Charge 2 shows calendar notifications from the calendar app you choose during setup. You can choose from the default Calendar app on your mobile device or several third-party calendar apps.</p> </div> <div data-bbox="347 1415 823 1463"> <h3>Enabling notifications</h3> </div> <div data-bbox="347 1495 1481 1587"> <p>Before you turn on notifications in the Fitbit app, make sure that Bluetooth on your mobile device is turned on and that your mobile device is capable of sending notifications (often under Settings > Notifications).</p> </div> <div data-bbox="347 1614 1464 1677"> <p>For more information about making sure your mobile device permits notifications, see help.fitbit.com.</p> </div> <div data-bbox="347 1705 1401 1738"> <p>Call and text notifications are on by default. To turn on calendar notifications:</p> </div> <div data-bbox="315 1770 1429 1839"> <ol style="list-style-type: none"> 1. With your tracker nearby, on the Fitbit app dashboard, tap the Account icon (👤). </div> |

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| | <p>2. Tap the Charge 2 tile.</p> <p>3. Tap Notifications and turn on or off any combination of text, call, or calendar notifications.</p> <p>4. Follow the onscreen instructions to connect (bond) your mobile device with your tracker.</p> <p>After notifications are enabled, "Charge 2" appears in the list of Bluetooth devices paired to your mobile device.</p> <hr/> <p>Note: If this is your first time setting up notifications on your Android mobile device, for detailed instructions, see help.fitbit.com.</p> <hr/> <h3>Viewing incoming notifications</h3> <p>If your tracker and mobile device are within 30 feet of each other, a call, text message, or calendar event causes the tracker to vibrate. Your screen will remain off until you wake it up to view the notification. To wake up your tracker and view the notification, turn your wrist towards you or press the button. The notification is only available for one minute after you receive it. If you have more than one unread notification, you'll see a plus sign (+) indicator.</p> <p>For phone calls, the notification scrolls four times with the name or number of the caller while an animation plays. To dismiss the notification, press the button.</p> <div data-bbox="818 1081 1003 1407" data-label="Image"> </div> <p>For text messages the message scrolls one time and then disappears. The sender's name scrolls once and remains static.</p> <p>For calendar events, the name of the event scrolls one time and then disappears. The event time scrolls once and remains static.</p> <p>If the text message, calendar event, sender or event time, is short enough to show on the screen, the information does not scroll. The character limit for notifications is 40.</p> <p><i>Source: Fitbit, Inc., Fitbit Charge 2 Manual (2017), p. 21, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</i></p> <p>As another example, the Accused Product determines a vibration (i.e. haptic feedback or haptic effect) based on whether the user has reached a Run Cue (e.g. 1 mile lap) communicated by the Fitbit App from the smartphone.</p> |

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| | <div data-bbox="435 319 1177 373" data-label="Section-Header"> <h2>Exercising with Fitbit Charge 2</h2> </div> <div data-bbox="435 401 1463 512" data-label="Text"> <p>Charge 2 uses SmartTrack™ to automatically detect and record select exercises. For more precision or to see real-time stats and a workout summary right on your wrist, you can tell your tracker when exercise starts and stops. All workouts appear in your exercise history for deeper analysis and comparison.</p> </div> <div data-bbox="435 560 789 606" data-label="Section-Header"> <h3>Using SmartTrack</h3> </div> <div data-bbox="435 632 1468 741" data-label="Text"> <p>SmartTrack ensures you get credit for your most active moments of the day. When you sync your tracker after a SmartTrack-detected exercise, you can find several stats in your exercise history including duration, calories burned, impact on your day, and more.</p> </div> <div data-bbox="435 764 1468 875" data-label="Text"> <p>By default, SmartTrack detects continuous movement at least 15 minutes in length. You can increase or decrease the minimum duration or disable SmartTrack for one or more exercise types. For more information about customizing and using SmartTrack, see help.fitbit.com.</p> </div> <div data-bbox="423 917 1503 991" data-label="Text"> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 16, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> </div> <div data-bbox="285 1029 1520 1247" data-label="Text"> <p>Based on public information, Fitbit Charge 2 app appears to have same or similar feature Run app as the Fitbit Blaze. Further, a user can change the Running Cues to different miles or minutes. Indeed, Fitbit provides users with a forum to ask questions and provides instructions to change adjust or edit settings on users' Fitbit App and Fitbit trackers. For instance, a user asks how to adjust the settings for the "Running Cues" so that the Accused Product will vibrate every .5 miles instead of just 1 mile, as illustrated below.</p> </div> <div data-bbox="285 1276 1455 1663" data-label="Image"> </div> <div data-bbox="285 1667 1511 1740" data-label="Text"> <p>Source: Fitbit, Inc., <i>Fitbit Community, Product Help Forums "Surge," "Running Cues"</i> (2017), available at https://community.fitbit.com/t5/Surge/Running-cues/td-p/1514934.</p> </div> <tr> <td data-bbox="82 1856 272 1919">outputting the haptic</td><td data-bbox="277 1856 1539 1919">The Accused Products include a processor configured to output the haptic effect.</td></tr> | outputting the haptic | The Accused Products include a processor configured to output the haptic effect. |
| outputting the haptic | The Accused Products include a processor configured to output the haptic effect. | | |

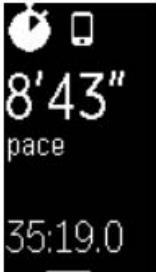
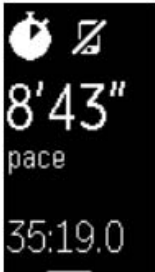
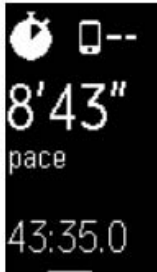
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| effect. | <p>For example, the Accused Products include a processor configured to output the haptic feedback (i.e. haptic effect).</p> <p>The pictures below provide that the Accused Product is configured to output the haptic feedback (i.e. haptic effect). As an example, the Accused Product vibrates with alarms, goals, and notifications, such as the user meeting the 10,000 steps goal.</p> <p>Haptic feedback</p> <p>Charge 2 contains a vibration motor, for alarms, goals, notifications, and reminders.</p> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 17, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> <p>Further, as another example, the Accused Product has a processor that is configured to vibrate once the user reaches a certain Run Cue.</p>  <p>Source: Fitbit, Inc., <i>Fitbit Community, Product Help Forums “Surge,” “Running Cues”</i> (2017), available at https://community.fitbit.com/t5/Surge/Running-cues/td-p/1514934.</p> |





| Claim 28 | Fitbit, Inc. Accused Products |
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| <p>The system of claim 27, wherein the first sensor and the second sensor are each configured to detect one or more of: contact, pressure, acceleration, inclination, inertia, or location.</p> | <p>The Accused Products provide that the first sensor and the second sensor are each configured to detect one or more of: contact, pressure, acceleration, inclination, inertia, or location.</p> <p>For example, the Accused Products provide that the first sensor (i.e. 3-axis accelerometer) and the second sensor (i.e. tap display) are each configured to detect one or more of: contact, pressure, acceleration, inclination, inertia, or location.</p> <p>The pictures below show that the Accused Product contains a tap display (i.e. contact pressure), MEMS 3-axis accelerometer (i.e. acceleration), and an altimeter (i.e. inclination and inertia).</p> <p>Display</p> <p>The Charge 2 has an OLED tap display.</p> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 28, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> <p>Sensors</p> <p>Your Charge 2 contains the following sensors:</p> <ul style="list-style-type: none"> • A MEMS 3-axis accelerometer, which tracks your motion patterns • An altimeter, which tracks altitude changes • An optical heart rate tracker <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 27, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> |

| Claim 29 | Fitbit, Inc. Accused Products |
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| <p>The system of claim 27, wherein the second sensor comprises a touch-screen.</p> | <p>The Accused Products provide the second sensor comprises a touch-screen.</p> <p>For example, the Accused Products provide the second sensor comprises a touch-screen (i.e. Tappable Display).</p> <p>As shown below, the Accused Product contains a Tappable Display (i.e. second sensor).</p> <div data-bbox="386 472 787 1039"> </div> <div data-bbox="938 472 1323 514"> <h3>Standout Features</h3> </div> <div data-bbox="938 567 1323 903"> <ul style="list-style-type: none"> PurePulse® Heart Rate Multi-Sport Tracking & Connected GPS Call, Text & Calendar Alerts Cardio Fitness Level Guided Breathing Sessions </div> <div data-bbox="735 1050 950 1081"> <h3>Essential Features</h3> </div> <div data-bbox="337 1134 1339 1260"> <div> All-Day Activity </div> <div> Auto Sleep Tracking & Sleep Stages </div> <div> SmartTrack™ Auto Exercise Recognition </div> <div> Reminders to Move </div> <div> Long Battery Life Up to 5 days* </div> </div> <p>Source: Fitbit, Inc., Charge 2, available at https://www.fitbit.com/charge2.</p> |

| Claim 31 | Fitbit, Inc. Accused Products |
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| <p>The system of claim 27, wherein the processor is further configured to transmit a second data signal to the network interface, and the network interface is further configured to transmit the second data signal to the second mobile device.</p> | <p>The Accused Products provide the processor is further configured to transmit a second data signal to the network interface, and the network interface is further configured to transmit the second data signal to the second mobile device.</p> <p>For example, as the picture below shows in the red boxes, the Accused Product provides that the processor is further configured to transmit information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results (i.e. second data signal) to the Bluetooth transceiver (i.e. network interface), and the Bluetooth transceiver (i.e. network interface) is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to smartphone, such as an iPhone or Android smartphone (i.e. second mobile device). By way of example, as shown in the red boxes in the picture below, the Accused Product provides that the processor is further configured to transmit or sync the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to the Bluetooth transceiver, and the Bluetooth transceiver is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to the Fitbit dashboard on a user's smartphone, such as an iPhone or Android smartphone.</p> |

| Claim 31 | Fitbit, Inc. Accused Products |
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| | <div data-bbox="321 212 1523 396" style="border: 2px solid red; padding: 10px;"> <h2 style="color: #00AEEF; margin: 0;">Automatic tracking with Fitbit Charge 2</h2> <p>Your Charge 2 continuously tracks a variety of stats whenever you have it on. The information is transferred to your dashboard every time you sync your tracker.</p> </div> <p style="margin-top: 20px;">Viewing all-day stats</p> <p>Press the button to wake up your Charge 2 and see the time of day. Tap the screen to see each of these all-day stats:</p> <ul style="list-style-type: none"> Steps taken Current heart rate Distance covered Calories burned Floors climbed Active minutes Hourly activity <div data-bbox="321 873 1523 1304" style="border: 2px solid red; padding: 10px; margin-top: 20px;"> <p>On your Fitbit dashboard you can find other information captured by your tracker, such as:</p> <ul style="list-style-type: none"> Your sleep history, including hours slept and sleep patterns The hours of your day that you were stationary vs. active (walked at least 250 steps) Your exercise history and progress towards a weekly exercise goal Your beats per minute (BPM), average resting heart rate, and time spent in heart-rate zones <hr style="border: 0.5px solid #00AEEF; margin-top: 10px;"/> <p>Note: Charge 2 resets at midnight to begin a new day.</p> </div> <p style="margin-top: 20px;"><i>Source: Fitbit, Inc., Fitbit Charge 2 Manual (2017), p. 12, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</i></p> <p>By way of another example, as the picture below shows in the red boxes, the Accused Product provides that the processor is further configured to transmit information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results (i.e. second data signal) to the Bluetooth transceiver (i.e. network interface), and the Bluetooth transceiver (i.e. network interface) is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to smartphone, such as an iPhone or Android smartphone (i.e. second mobile device). For instance, as shown in the red boxes in the picture below, the Accused Product provides that the processor is further configured to transmit or sync information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to the Bluetooth transceiver, and the Bluetooth transceiver is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to the</p> |

| Claim 31 | Fitbit, Inc. Accused Products |
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| | <p>Fitbit dashboard on a user's smartphone, such as an iPhone or Android smartphone.</p> <p>Tracking exercise</p> <p>To track an exercise:</p> <ol style="list-style-type: none"> 1. On your tracker, press the button until you get to the Exercise screen and then tap to find the exercise of your choice. 2. Press and hold the button to start the exercise. If you see a phone icon at the top, that exercise offers connected GPS and your device is connected to a GPS signal. If the phone icon is crossed out, a GPS connection isn't available. An animated dashed line means your device is trying to find a GPS signal. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>GPS signal connected</p> </div> <div style="text-align: center;">  <p>GPS signal disconnected</p> </div> <div style="text-align: center;">  <p>Searching for GPS signal</p> </div> </div> <div style="border: 2px solid red; padding: 10px; margin-top: 10px;"> <ol style="list-style-type: none"> 3. During your workout, tap your tracker to scroll through your real-time stats or check the time of day. 4. To pause your workout, press the button. Then press the button again to resume the exercise." 5. When you're done with your workout, press and hold the button to stop recording. You'll see a flag icon and a congratulatory message. 6. Press the button to see a summary of your results. With each button press you'll cycle to a different set of stats. You can view your exercise summary one time. <p>Syncing your tracker stores the workout in your exercise history. There you can find additional stats and see your route if you used connected GPS.</p> </div> <p>Source: Fitbit, Inc., <i>Fitbit Charge 2 Manual</i> (2017), p. 12, available at https://staticcs.fitbit.com/content/assets/help/manuals/manual_charge_2_en_US.pdf.</p> <p>By way of another example, as the picture below shows in the red boxes, the Accused Product provides that the processor is further configured to transmit information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results (i.e. second data signal) to the Bluetooth transceiver (i.e. network interface), and the Bluetooth transceiver (i.e. network interface) is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results to smartphone, such as an iPhone or Android smartphone (i.e. second mobile device). Accordingly, the Accused Product provides that the processor is further configured to transmit information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results (i.e. second data signal) to the Bluetooth transceiver (i.e. network interface), and the Bluetooth transceiver (i.e. network</p> |

| Claim 31 | Fitbit, Inc. Accused Products |
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| | <p>interface) is further configured to transmit the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results data to smartphone, such as an iPhone or Android smartphone, by syncing or transferring the information corresponding to a summary of a user's tracked statistics and results, including daily activity goal results or Cue data results data collected from the tracker to the Fitbit dashboard.</p> <div data-bbox="435 432 1401 653"> <p>WHAT IS SYNCING?</p> <p><i>Syncing</i> is the process that transfers the data your tracker collects to your Fitbit dashboard. The dashboard is where you can track your progress, see how you slept, set goals, log food and water, challenge friends, and much more. Your tracker uses Bluetooth Low Energy (BLE) technology to sync with mobile devices and certain computers. The instructions in How do I set up my tracker? explain how to make sure your Fitbit tracker can sync with the mobile device or computer you prefer.</p> </div> <div data-bbox="435 674 1380 982"> <p>WHEN DOES MY TRACKER SYNC?</p> <p>If your tracker is paired to the Fitbit app on a mobile device, it syncs every time you open the app. It can also sync periodically throughout the day if you have All-Day sync turned on. If you sync your tracker with a computer and Fitbit Connect, it syncs automatically every 15 to 30 minutes assuming the tracker and computer are in proximity, and the dongle is plugged in, if applicable.</p> <p>You can also initiate a sync whenever you like if your tracker is nearby. If you're using an iOS or Android mobile device, you can sync your tracker from the Fitbit app dashboard by touching your tracker image at the top of the screen and pulling down. Choose a section to see syncing instructions.</p> </div> <div data-bbox="444 1003 1390 1283"> <ul style="list-style-type: none"> IOS DEVICES  ANDROID DEVICES  WINDOWS 10 MOBILE DEVICES AND COMPUTERS  MAC OR WINDOWS 8.1 COMPUTERS  </div> <p>Source: Fitbit, Inc., <i>How do Fitbit devices sync their data?</i> (2017), available at http://help.fitbit.com/articles/en_US/Help_article/1877?p=charge_2&c=Topics%3AAndroid&l=en_US&fs=Search&pn=1.</p> |