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**(54) Title (EN):** DEVICE AND METHOD FOR TRANSMITTING AND RECEIVING DATA USING TOUCH AND MICROPHONE

**(54) Title (FR):** DISPOSITIF ET PROCÉDÉ POUR ENVOYER ET RECEVOIR DES DONNÉES À L'AIDE DU TOUCHER ET D'UN MICROPHONE

**(54) Title (KO):** 터치와 마이크를 이용한 데이터 송수신 장치 및 방법

**(57) Abstract:**

**(EN):** The present invention is related to a device which uses touch inputs and sound inputs on a mobile terminal to authenticate, and transmits and receives data. According to one embodiment, the device may comprise: a speaker for outputting a security sound signal; a touch unit for inputting a touch signal to a user terminal; and a processor for generating the security sound signal and touch signal. In addition, an information processing device is realized which includes: a transmission and reception unit which receives an identification (ID) of a first beacon and a user profile when a user terminal transmits the user profile associated with the user terminal in response to receiving the ID of the first beacon from the first beacon among at least one beacon near the user terminal; and a processing unit which extracts third information corresponding to the user profile among a plurality of pieces of selectively provided information.

**(FR):** La présente invention concerne un dispositif qui utilise des entrées tactiles et des entrées sonores sur un terminal mobile pour l'authentification, et envoie et reçoit des données. Selon un mode de réalisation, le dispositif peut comprendre : un haut-parleur pour émettre un signal sonore de sécurité; une unité tactile pour introduire un signal tactile dans un terminal utilisateur; et un processeur pour générer le signal sonore de sécurité et le signal tactile. De plus, un dispositif de traitement d'informations est réalisé qui comporte : une unité d'émission et de réception qui reçoit un identifiant (ID) d'une première balise et un profil d'utilisateur lorsqu'un terminal utilisateur envoie le profil d'utilisateur associé au terminal utilisateur en réponse à la réception de l'ID de la première balise en provenance de la première balise parmi au moins une balise à proximité du terminal utilisateur; et

une unité de traitement qui extrait des troisièmes informations correspondant au profil d'utilisateur parmi une pluralité d'éléments d'informations fournies de façon sélective.

**(KO):** 휴대용 단말기에 터치 입력과 소리 입력을 이용하여 인증하고 데이터를 송수신하는 장치에 연관되며, 일실시에에 따르면 보안 사운드 신호를 출력하는 스피커; 사용자 단말에 터치 신호를 입력하는 터치부; 및 보안 사운드 신호와 터치 신호를 생성하는 프로세서로 구성될 수 있다. 또한 사용자 단말이 인근에 있는 적어도 하나의 비콘 중 제1 비콘으로부터 제1 비콘의 ID(Identification)를 수신하는 것에 응답하여 사용자 단말에 연관된 사용자 프로필을 송신하는 경우, 제1 비콘의 ID 및 사용자 프로필을 수신하는 송수신부; 및 선택적으로 제공되는 복수 개의 정보 중 사용자 프로필에 대응하는 제3 정보를 추출하는 처리부를 포함하는 정보 처리 장치를 구현한다.

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