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(71) Applicant(s):

SONY INTERACTIVE ENTERTAINMENT INC. [JP/JP]; 1-7-1, Konan, Minato-ku Tokyo 1080075 (JP) *(for all designated states)*

SONY INTERACTIVE ENTERTAINMENT EUROPE LTD [GB/GB]; 10 Great Marlborough Street, London W1F 7LP (GB) *(for all designated states)*

(72) Inventor(s):

TSURU Daisuke; c/o SONY INTERACTIVE ENTERTAINMENT INC., 1-7-1, Konan, Minato-ku Tokyo 1080075 (JP)

NISHIKAWA Kenzo; c/o SONY INTERACTIVE ENTERTAINMENT INC., 1-7-1, Konan, Minato-ku Tokyo 1080075 (JP)

RAGHOEBARDAJAL Winesh Sharwin; c/o Sony Interactive Entertainment Europe Ltd 10 Great Marlborough Street, London W1F 7LP (GB)

(74) Agent(s):

MORISHITA Sakaki; 2-11-12, Ebisu-Nishi, Shibuya-ku Tokyo 1500021 (JP)

(54) Title (EN): INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING SYSTEM, DEVICE FOR POSITION/ATTITUDE ACQUISITION, AND DEVICE INFORMATION ACQUISITION METHOD

(54) Title (FR): APPAREIL DE TRAITEMENT D'INFORMATIONS, SYSTÈME DE TRAITEMENT D'INFORMATIONS, DISPOSITIF D'ACQUISITION DE POSITION/ATTITUDE, ET PROCÉDÉ D'ACQUISITION D'INFORMATIONS DE DISPOSITIF

(54) Title (JA): 情報処理装置、情報処理システム、位置姿勢取得用デバイス、およびデバイス情報取得方法

(57) Abstract:

(EN): This information processing apparatus uses an image obtained by photographing a device provided with a light-emitting marker for an exposure time 60a, 60b, 60c shorter than a one-frame time to acquire position and attitude information of the device. The light-emitting marker emits light for a light emitting time 62a, 62b, 62c shorter than or equal to the exposure time 60a, 60b, 60c. The information processing apparatus causes the light-emitting marker to emit light in a predetermined turning on/off pattern, specifies an exposure time on a time axis of the device according to the presence or absence of an image in the captured image, and synchronizes exposure and light emission.

(FR): La présente invention concerne un appareil de traitement d'informations qui utilise une image obtenue par photographie d'un dispositif pourvu d'un marqueur électroluminescent pendant un temps de pose (60a, 60b, 60c) plus court qu'un temps à trame unique pour acquérir des informations de position et d'attitude du dispositif. Le marqueur électroluminescent émet de la lumière pendant un temps d'émission de lumière (62a, 62b, 62c) inférieur ou égal au temps de pose (60a, 60b, 60c). L'appareil de traitement d'informations amène le marqueur électroluminescent à émettre de la lumière selon un motif de marche/arrêt prédéterminé, spécifie un temps de pose sur un axe temporel du dispositif en fonction de la présence ou de l'absence d'une image dans l'image capturée, et synchronise la pose et l'émission de lumière.

(JA): 情報処理装置は、発光マーカーを備えるデバイスを、1フレーム分の時間より短い露光時間60a、60b、60cで撮影した画像を用いて、デバイスの位置や姿勢の情報を取得する。発光マーカーは露光時間60a、60b、60c以下の発光時間62a、62b、62cで発光させる。情報処理装置は、所定の点灯/消灯パターンで発光マーカーを発光させ、その撮影画像における像の有無に従い、デバイスの時間軸における露光時間を特定し、露光と発光を同期させる。

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