

Camera Shutter Precise Synchronization

Enabling precise shutter synchronization between several cameras

Overview

It is required to synchronize shutter timing when observing some objects by several cameras. Synchronization requirement gets more strict when fast moving objects to be observed.

Traditional way for shutter synchronization is to connect cameras by cables or prepare dedicated network which each camera works on. However, cables makes system setup inconvenient in terms of physical setting, and network delay shall not be negligible when object movement is fast.

This technology enables it more simple way, by hiring visual light blink to be conduction for all participating cameras.

Demo Movie : https://www.youtube.com/watch?v=-J_4lb21ogs

Applications

Observing fast moving objects by several cameras in precise timing

- Motion capturing in sports scene
- Object detection from vehicles
- etc.

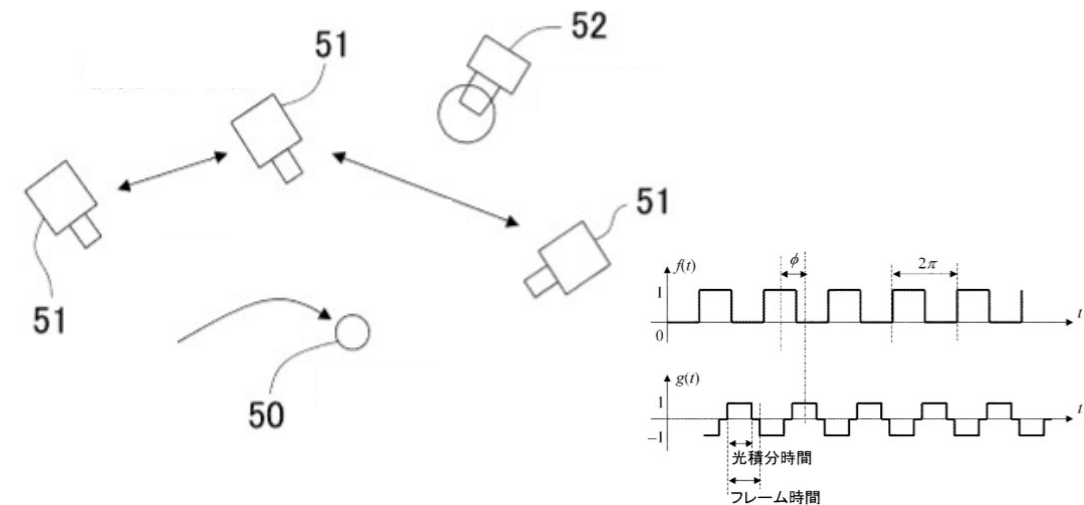
IP Information

Patent No. : JP 5213045

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Synchronize shutter timing conducted by light blink



Related Works

- Lei Hou, Shingo Kagami, Koichi Hashimoto: Illumination-Based Synchronization of High-Speed Vision Sensors, Sensors, Vol.10, No.6, pp.5530-5547, 2010.
- Demo movie: https://www.youtube.com/watch?v=-J_4lb21ogs

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