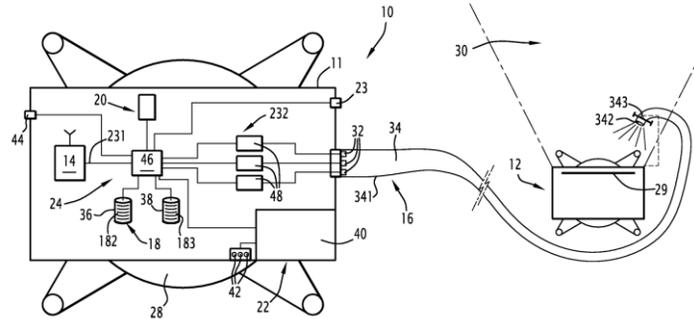


DEVICE FOR OPTICAL TIME-STAMPING, AND RELATED IMAGE-SENSING SYSTEM AND OPTICAL TIME-STAMPING METHOD

Technological advantages

Efficient system:

- Optical time-stamping with no direct connection / interface with the optical instrument for shooting.
- Compatible with all optical systems within the visible, infrared.
- Compatible with photometers.



Schematic view according to the invention

- (10) Time-stamping device and set-up
- (12) Optical instrument for shooting
- (14) Accurate reference clock
- (16) Light source visible on the retina (29)
- (24) Set of controlling means
- (29) Retina for shooting the field of view (30)
- (231,232) Connections from the clock to the lighting (16)

Invention synthesis

The invention deals with a time-stamping device for an optical instrument set-up.

Traditionally, an electronic device is integrated within an optical instrument to overlay (burn in) a date and time. This method requires a tight and specific electronic set-up within the instrument and also modifies the video flux.

The invention presents an optical system and set-up for timestamping using an external and stand alone device having an internal clock and a source of lighting visible within the field of view of the optical instrument retina (visible or infrared), or photometer. The emitted light signal encodes information about the time and date, it can be modulated in intensity, wave length, pulse width. The encoding of various events is stored within a database.

Commercial benefits

- Simple system, independent and compatible with all optical systems. Does not require electronic interfaces with the optical instrument(s).

Potential applications

- Astronomy, eclipse, debris reentry, meteors, atmospheric storms.

Patented invention - under license.