

#### Partners

Roger Calderbank  
Patrick Stoner  
Seán Walton  
Nigel Hackney  
Simon Kiddle  
Adrian Brasnett  
Roger Grimshaw  
Simon Kremer  
Joanna Cripps  
Robert Watson  
Christopher Denison  
Nicholas Sutcliffe  
Sofia Arenal  
Matthew Naylor  
Stephen Carter  
Stephen Gill  
Wilhelmus Wytenburg  
Graham Forrest  
Richard Clegg  
Rachel Oxley  
Rebecca Tollervey

Jeremy Webster  
Richard Johnson  
Hilary van der Hoff  
Lindsey Woolley  
Simon Parry  
Kerry Moroney  
Sam Bailey  
Graeme Moore  
Stephen Hodsdon  
Christopher Casley  
Jonathan Willis  
Julie Carlisle  
Tanis Keirstead  
James Leach  
Emily Hayes

#### Qualified Staff

John Addiss  
Robert Andrews  
Timothy Belcher  
Michael Foster  
Emma Graham

Katherine Green  
Edmund Harrison  
Susan Harrison  
Sean Jauss  
Rachel Jones  
Nicola Kimblin  
Andy King  
Elizabeth Lambert  
Joseph Lenthall  
June Lyons  
Kathryn Nicholls  
Frances Salisbury  
Matthew Smith  
Jonathan Stafford  
Ian Stuart  
Laurence Toime  
Rachel White

**Consulting Partners**  
Ian Armitage  
Hugh Paget

08 August 2013

Dear Sirs

## INTERNATIONAL PATENT APPLICATION NO. PCT/JP2011/062196

**Your ref :** NP106-EP  
**Our ref :** SCG/FP6914345

We have brought the above-identified International (PCT) patent application into the European Regional Phase as you requested.

### Application Data

**Applicant :** NEW ASIA OPTICAL INDUSTRY CO., LTD.  
**European application number :** 11856134.9  
**Effective European application date :** 27 May 2011  
**Priority claim :** 18 January 2011 JP 2011-007982  
**Title :** LIGHT INTENSITY ADJUSTMENT DEVICE

### Request for Examination

We have paid the examination fee.

### Designation of Countries

We have paid the designation fee. All available EPC countries are designated. See List 1 below. Note that the EPO will not refund the designation fee after it has been paid, even if the application is withdrawn.

Continued....

## DESCRIPTION

[Title of Invention] LIGHT INTENSITY ADJUSTER

[Technical Field]

[0001]

5 This invention relates to a light intensity adjuster, and more specifically, to that which is operable to have a filter intervening as necessary in an optical path for transmitting light.

[Background Art]

[0002]

10 There are image taking devices employing image pickup elements such as those of a CCD (charge-coupled device) or CMOS (complementary metal-oxide semiconductor), for instance, having a light intensity adjuster mounted for adjusting the intensity of light.

[0003]

15 Such image taking devices sometimes have an infrared ray (IR) cutoff filter mounted for cutting rays of invisible light in an infrared region, with the need of displacing the infrared ray cutoff filter out of an optical path for transmitting light at timings involving use in the night or for night vision such as those at a monitoring camera. Therefore, such image taking devices require, besides the light intensity adjuster, also a device for actuating the infrared ray cutoff filter, which might have been separately mounted for large-size cameras, but for recent types being needed to downsize, there is a way of downsizing needed to achieve while implementing integration with the  
20 light intensity adjuster.

[0004]

More specifically, there are light intensity adjusters involving, for instance, that which, as shown in Fig. 9, has a drive motor 10 mounted for adaptation to actuate a light intensity adjusting mechanism (as an iris mechanism) 30, using drive forces of the drive motor 10, thereby causing  
25 light intensity adjusting members 32 and 33 to have the area of a shape of opening defined between peripheral edges 32d and 33d thereof put in positional relations opposite each other, varied to adjust the light intensity.

[0005]