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Current Date: 10/22/2020

Source: U.S. District Court, Northern District of California (San Francisco)

Court: U.S. District Court, Northern District of California (San Francisco)

Case Title: [Largan Precision Co., Ltd. v. Ability Opto-Electronics Technology Co., Ltd. et al](#)

Case: 3:20-CV-06607

Judge: Judge [James Donato](#)

Date Filed: 09/21/2020

Other Dockets: Case in other court: Texas Eastern, 4:19-cv-00696

Case Status: ADRMOP, AO279

SYNOPSIS INFORMATION

Allegations:

Case transferred from District of Texas Eastern; Case Number 4:19-cv-00696. Defendants infringed upon plaintiff's registered patents entitled "Optical System for Taking Image." and "Optical Image-Capturing Lens Assembly." by making, using, offering to sell and selling products that infringe the patents-in-suit without authority. Patent no. 7,274,518--8,395,691-- 8,988,796-- 9,146,378--.

Damages:

Actual damages, Injunction, declaratory judgment, interest, costs and fees.

COMPLAINT (MANUALLY RETRIEVED)



[Original Image of this Document \(PDF\)](#)

CASE INFORMATION

Case Number: 3:20CV06607

Jury Demand: Both

Nature of Suit: Property Rights: Patent (830)

Key Nature of Suit: Intellectual Property; Patent (260.10)

Jurisdiction: Federal Question

Cause: [35 USC 271](#) Patent Infringement

PATENT INFORMATION

[U.S. Pat. No. 7274518](#) Optical system for taking image

Patent Number: [U.S. Pat. No. 7274518](#)

Application Number: 11/539,175

Title: Optical system for taking image

Abstract
An optical system comprises from the object side: a positive first lens element, a negative second lens element, a positive third lens element, a fourth lens element, and an aperture stop located between the object side of the optical system and the second lens element for controlling the brightness of the optical system. A radius of curvature R3 of a front surface of the second lens element satisfies the relation: $-0.02 [1/\text{mm}] < 1/R3 < 0.22 [1/\text{mm}]$, an Abbe number V2 of the second lens element is less than 40. A focal length of the fourth lens element is f4, a focal length of the optical system is f, they satisfy the relation: $f/f4 < 0.1$, at least one inflection point is formed on the rear surface of the fourth lens element.

U.S. Class: 359/772; 359/773; 359/774

Intl. Class: G02B 9/34 (20060101)

Inventor(s): Tang, Hsiang-Chi (Ta chung, TW)
Chen, Chun-Shan (Ta chung, TW)

Assignee: Largan Precision Co., Ltd. (Ta chung, TW)
Patent Current: 09/23/2020

U.S. Pat. No. 8395691 Optical image-capturing lens assembly

Patent Number: [U.S. Pat. No. 8395691](#)
Application Number: 12/912,401
Title Optica image-capturing lens assembly
Abstract This invention provides an optical image-capturing lens assembly comprising, in order from an object side to an image side: a first lens element with positive refractive power; a second lens element with negative refractive power; a third lens element, the object-side and image-side surfaces thereof being aspheric; and a fourth lens element having a concave image-side surface, the object-side and image-side surfaces thereof being aspheric and at least one inflection point being formed on at least one of the object-side and image-side surfaces thereof. The present lens assembly is further provided with a stop and an electron sensor for image formation of an object. The stop is disposed between the object and the second lens element, and the electron sensor is disposed at an image plane.
U.S. Class: 348/335; 348/340; 359/715
Intl. Class: H04N 5/225 (20060101); G02B 13/16 (20060101); G02B 3/02 (20060101); G02B 13/18 (20060101)
Inventor(s): Tang, Hsiang Ch (Ta chung, TW)
Hsieh, Dung Y (Ta chung, TW)
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Tsa, Tsung Han (Ta chung, TW)
Assignee: Largan Precision Co., Ltd. (Ta chung, TW)
Patent Current: 09/23/2020

U.S. Pat. No. 8988796 Image capturing lens system, imaging device and mobile

terminal

Patent Number: [U.S. Pat. No. 8988796](#)
Application Number: 14/105,811
Title Image capturing lens system, imaging device and mobile terminal
Abstract An image capturing lens system includes, in order from an object side to an image side, a first lens element, a second lens element, a third lens element and a fourth lens element. The first lens element has refractive power. The second lens element with positive refractive power has a convex image-side surface in a paraxial region thereof. The third lens element with negative refractive power has a concave object-side surface in a paraxial region thereof and a convex image-side surface in a paraxial region thereof. The fourth lens element with refractive power has a concave image-side surface in a paraxial region thereof, where in both of an object-side surface and the image-side surface thereof are aspheric, and the image-side surface thereof has at least one convex shape in an off-axis region thereof. The image capturing lens system has a total of four lens elements with refractive power.
U.S. Class: 359/779; 359/715; 359/781
Intl. Class: G02B 9/34 (20060101); G02B 3/02 (20060101)
Inventor(s): Chen, Wei-Yu (Ta chung, TW)
Assignee: Largan Precision Co., Ltd. (Ta chung, TW)
Patent Current: 09/23/2020

U.S. Pat. No. 9146378 Image capturing lens assembly, image capturing device and mobile terminal

Patent Number: U.S. Pat. No. 9146378
Application Number: 14/094,478
Title Image capturing lens assembly, image capturing device and mobile terminal
Abstract An image capturing lens assembly includes, in order from an object side to an image side, a first lens element, a second lens element and a third lens element. The first lens element with positive refractive power has a convex object-side surface and a convex image-side surface, wherein the surfaces of the first lens element are aspherical. The second lens element with positive refractive power has a concave object-side surface and a convex image-side surface, wherein the surfaces of the second lens element are aspherical. The third lens element with negative refractive power has a concave image-side surface in a paraxial region thereof, wherein the image-side surface of the third lens element has at least one convex shape in an off-axis region thereof, and the surfaces of the third lens element are aspherical. The image capturing lens assembly has a total of three lens elements with refractive power.
U.S. Class: 1/1
Intl. Class: G02B 9/12 (20060101); G02B 13/00 (20060101); H01L 27/146 (20060101)
Inventor(s): Chen, Kuan-Ming (Taichung, TW)
Huang, Hsin-Hsuan (Taichung, TW)
Assignee: LARGAN PRECISION CO., LTD. (Taichung, TW)
Patent Current: 09/23/2020

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