



US010288897B2

(12) **United States Patent**
Bachar et al.

(10) **Patent No.:** **US 10,288,897 B2**
(45) **Date of Patent:** ***May 14, 2019**

(54) **DUAL VOICE COIL MOTOR STRUCTURE IN A DUAL-OPTICAL MODULE CAMERA**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **15/725,901**

(22) Filed: **Oct. 5, 2017**

(65) **Prior Publication Data**

US 2018/0031860 A1 Feb. 1, 2018

Related U.S. Application Data

(63) Continuation of application No. 15/117,189, filed as application No. PCT/IB2016/050844 on Feb. 17, 2016, now Pat. No. 10,015,384.

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(51) **Int. Cl.**
G02B 7/06 (2006.01)
G02B 7/08 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC **G02B 27/646** (2013.01); **G02B 7/06** (2013.01); **G02B 7/08** (2013.01); **G02B 7/09** (2013.01);

(Continued)

(58) **Field of Classification Search**
CPC G02B 27/646; G02B 13/009; G02B 7/09; G02B 13/003; G02B 13/001; G02B 7/08;

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(57) **ABSTRACT**

Dual-optical module autofocus (AF) or AF plus optical image stabilization (OIS) cameras with reduced footprint and reduced mutual magnetic interference. Some AF+OIS cameras may include a single AF actuation assembly that moves two lens barrels in unison. Some AF cameras or AF+OIS cameras may have two AF actuation sub-assemblies and associated magnets for independent AF operation of each lens barrel, the magnets shared in a manner that cancels magnetic influences of one AF actuation sub-assembly on the other AF actuation sub-assembly, thereby allowing the two lens barrels to be positioned in close proximity, saving parts and fabrication costs.

11 Claims, 12 Drawing Sheets

