

Title (en)
DUAL BAND FRAMING RECONNAISSANCE CAMERA WITH ROLL MOTION COMPENSATION

Title (de)
DOPPELBAND-FRAMING-AUFKLÄRUNGSKAMERA MIT ROLLBEWEGUNGSKOMPENSATION

Title (fr)
CAMERA DE RECONNAISSANCE A DOUBLE BANDE AVEC COMPENSATION DU ROULIS

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Application
EP 01984574 A 20010726

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Abstract (en)
[origin: WO0219030A1] An electro-optical roll-framing camera (36) is described in which successive overlapping frames of scene imagery (1-5) are generated by an electro-optical imaging array (300). Image motion compensation is performed electronically to stop or freeze image motion caused by the roll motion. The image motion compensation is performed by the array (64) during the generation of the frames of imagery (1-5). The successive frames of imagery (1-5) are made during a continuous roll motion of the entire camera. The image motion due to roll is stopped or frozen without mechanically stopping the roll motion. The roll framing cycles (1-5) of the camera generate sweeping coverage of the terrain of interest (42). The roll rate for a given electro-optical array (300) is a function of the frame size and the framing rate, and is controllable by a master control computer (34). A novel catoptric Cassegrain optical system (50) which performs forward motion compensation is also described.

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Citation (search report)

- [XY] US 5841574 A 19981124 - WILLEY GILBERT W [US]
- [Y] US 5798786 A 19980825 - LAREAU ANDRE G [US], et al
- [YD] US 5155597 A 19921013 - LAREAU ANDRE G [US], et al
- [XY] EP 1022600 A1 20000726 - ZEISS OPTRONIK GMBH [DE]
- See references of WO 0219030A1

Cited by
WO2020136632A1

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WO 0219030 A1 20020307; **WO 0219030 A9 20020829**; **WO 0219030 B1 20020627**; AU 1660902 A 20020313; CA 2418917 A1 20020307; CA 2418917 C 20070306; EP 1323001 A1 20030702; EP 1323001 A4 20070131

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