

Title (en)

DIOPTRIC TELESCOPE FOR HIGH RESOLUTION IMAGING IN VISIBLE AND INFRARED BANDS

Title (de)

DIOPTRISCHES TELESKOP FÜR HOCHAUFLÖSENDE BILDGEBUNG IN SICHTBAREN UND INFRAROTEN BÄNDERN

Title (fr)

TÉLESCOPE DIOPTRIQUE POUR IMAGERIE HAUTE RÉOLUTION DANS DES BANDES VISIBLES ET INFRAROUGES

Publication

**EP 4359838 A1 20240501 (EN)**

Application

**EP 22829058 A 20220617**

Priority

- US 202117356348 A 20210623
- US 2022033968 W 20220617

Abstract (en)

[origin: WO2022271546A1] A cata-dioptic optical system for high resolution imaging in visible and infrared bands. The system includes a concave primary mirror, a convex secondary mirror, at least one beam splitter, a first folding mirror, a first group of lenses, a second group of lenses, and at least two image planes. The image planes have one or more aggregated sensors, where a first image plane receives rays from the first group of lenses and a second image plane receives rays from the second group of lenses, and at least one image plane is positioned behind the primary mirror and at a radial distance from the optical axis that is no more than the radius of the primary mirror.

IPC 8 full level

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CPC (source: EP IL KR)

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