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optical axis. The resolution in the direction of the optical axis is however not optimum. In order to improve the resolution, European Patent Application No. 81102296.4, corresponding to U.S. Pat. No. 4,765,481, discloses a similar imaging system, in which the optical system, in particular the optical system described in British Patent Application No. 2,095,244, is modified in that the filter is moved to an angle with respect to the optical axis in such a manner that the second object, which is on the optical axis, is imaged in the second focal point, which is located a second predetermined angle (e.g. 10.degree.) behind the first focal point, where the object-side of the imaging system lies on the optical axis. This system is far less suitable for use in the visible. In the visible range the reflection-refraction properties of all materials are such that rays of different wavelengths travel different paths, so that a lens, which is in itself transparent in the infrared, is also transparent in the visible range. Since this is not the case with the lens used in the imaging system described in the above British Patent Application No. 2,095,244, an additional filter must be introduced. European Patent Application No. 726,825, corresponding to U.S. Pat. No. 4,940,937, discloses 2d92ce491b