

VARIABLE POWER FINDER AND IMAGING APPARATUS

ABSTRACT

A variable power finder is proposed, which comprises: an objective system; an inverting system; and an ocular system, in order from object side. The third lens group of the objective system is constituted by one lens prism having at least one reflection surface, and following expressions are satisfied:

(1) $f_3/f_w \geq 2.5$

(2) $-1.0 < (R_{32}+R_{31})/(R_{32}-R_{31}) < 1.0$

10 (3) $L_1/f_w^2 \leq 0.45$

(4) $L_2/f_w^2 \geq 0.03$

where f_3 is a focal distance of third lens group, f_w is a focal distance at wide angle end of objective system, R_{31} is a curvature radius of object side lens surface of lens prism, R_{32} is a curvature radius of image side lens surface of lens prism, L_1 is an air equivalent distance from middle imaging surface to object side lens surface of lens prism, and L_2 is a distance from middle imaging surface to image side lens surface of lens prism.

Figure 1.