

ABSTRACT OF THE DISCLOSURE

05 An apparatus for detecting an initial position of a
movable lens (8) in a lens barrel in which a lens holder
(9) retaining the lens (8) is reciprocally movable
parallel to an optical axis (C) of the lens. The
apparatus includes magnet means (11) which has north and
south polarities (11a,11b) and is alternatively secured
to either an outer periphery of the lens holder (9) or
10 an inner periphery of the lens barrel. Magnet flux
detecting means (12) is also secured to whichever of the
outer periphery of the lens holder (9) or the inner
periphery of the lens barrel to which the magnet means
(11) is not secured, such that the detecting means (12)
15 faces a boundary (11c) between the polarities (11a,11b)
of the magnet means (11). The detecting means (12)
detects magnetic flux density of the magnet means (11)
and outputs a voltage based on the detected magnetic
flux density. The initial position of the lens (8) is
20 determined as a point where the output voltage indicates
zero or approximately zero.

Fig. 1

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