



A B S T R A C T

A MULTI-FUNCTIONAL ANALOG ELECTRONIC WATCH

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10 A multi-functional analog electronic watch has
step motors for driving hands indicating ordinary time
and for indicating additional functions. One step motor
drives through a gear train an hour hand (12) and a
minute hand (11) indicating ordinary time by rotating
about a central axis. From the same gear train a second
hand (14) is driven to indicate ordinary time by
rotating about an axis eccentric to the central axis and
15 disposed along the position of the hour hand at 9
o'clock. A second step motor drives through a gear
train a chronograph second hand (21) indicating seconds
elapsed since pushing of a switch operating button (24)
by rotating about the central axis. A third step motor
20 drives through a gear train a chronograph minute hand
(31) indicating minutes elapsed since pushing of the
button (24) by rotating about an axis eccentric to the
central axis and disposed along the position of the hour
hand at 12 o'clock. A fourth step motor drives through
25 a gear train alarm minute and hour hands (38, 39)
indicating an alarm time set or ordinary time by
rotating about an axis eccentric to the central axis and
disposed along the position of the hour hand at 6
o'clock. A first stem can be pulled to a position in
30 which the ordinary time gear train can be rotated to
correct the positions of the hour and minute hands (12,
11). A second stem (23) can be pulled to either of two
positions, in one of which timer or alarm functions can
be achieved. In the timer function mode, pushing of the



button (24) causes reverse stepping of the second and third step motors, so that the chronograph minute and second hands (31, 21) indicate elapsed time in seconds and minutes respectively.

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[Figure 17]

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