

Title (en)

DEPTH MEASURING DEVICE FOR WATCH AND WATCH INCORPORATING SUCH A MEASURING DEVICE

Title (de)

TIEFENMESSEINRICHTUNG FÜR EINE UHR UND UHR MIT EINER SOLCHEN MESSEINRICHTUNG

Title (fr)

DISPOSITIF DE MESURE DE LA PROFONDEUR POUR MONTRES ET MONTRES INTEGRANT UN TEL DISPOSITIF DE MESURE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2007069028A2] The depth measuring device for a diving watch, more particularly a watch with a chronograph mechanism, comprises a plunger (343) which is moved by external pressure through a rolling membrane (346) against the action of a return element. The plunger acts on cams (351) belonging to a circular slide (350) mounted in a casing ring (330). The movement of the slide (350) is transmitted by a gear train (359) to a depth needle (307) and to a dead needle (308). A pressure sensing device (324) comprises a sliding plunger mounted inside the winding button (314). This plunger acts on a control device (325) for automatically starting and stopping the chronograph mechanism. A locking device (327) is used to lock and release the control device (325) and displays a diving flag (443) in the released position. The gear chain (359) is also designed to display a safety flag (389) at a predetermined depth. A resetting device (328) allows the various mechanisms and devices to be reset to zero. This construction provides a depth measuring device that can easily be incorporated into pre-existing watches and permits automatic starting and stopping of the chronograph mechanism.

IPC 8 full level

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