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Vitt et al.

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(54) **VALVE DEVICE FOR AN INTERNAL COMBUSTION ENGINE**

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See application file for complete search history.

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(57) **ABSTRACT**

A valve device for an internal combustion engine includes a housing with an inlet and an outlet, a passage opening which fluidically connects the inlet with the outlet, a first valve-closing member which controls the passage opening, an actuator, a valve rod on which the first valve-closing member is arranged, a stop element, a spring surrounding the valve rod, and an element. A first end of the spring is supported against the first valve-closing member, and a second end of the spring is supported against the stop element. The element substantially surrounds the spring. The element comprises a first lateral surface and a second lateral surface in mutual engagement with each other. The first lateral surface abuts against the first valve-closing member and is movable therewith. The second lateral surface abuts against the stop element. The first valve closing member moves relative to the stop element.

11 Claims, 1 Drawing Sheet

