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## Patent Search

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## Abstract:

The present invention discloses an automatic decompression valve fastened to IC engine unit and method thereof. In the present invention, a mechanism for valve-re internal combustion engines with an automated decompression feature. This mechanism is characterized by a simple, lightweight design that does not hinder the str integrity of the cam and camshaft. The decompression device can be mass-produced due to its straightforward and efficient manufacturing process. Accompanied DI 1-2]

### **Complete Specification**

Description:[001] The present invention generally relates to the field of Automated Decompression Mechanism for Valve-Regulated Internal Combustion Engines. The invention more particularly relates to an automatic decompression valve fastened to IC engine unit and working method thereof.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the informatic provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue c inclusion in this section.

[004] Internal combustion engines, particularly valve-regulated types, necessitate the incorporation of a decompression device to facilitate their operation. The desi development of such a device present various challenges, including ensuring minimal interference with the cam and camshaft's rigidity, lightweight construction, ar efficient manufacturability.

[005] A noteworthy feature of the invention is its simple and lightweight construction. The decompression device is designed to neither compromise the rigidity of t and camshaft nor add substantial weight to the engine's overall assembly. This characteristic makes it particularly appealing for smaller engines, where weight and are premium factors.

10061 The decompression lever, shaped as a how-shaped element, is strategically positioned on both ends of the camshaft. This design decision leads to a lightweig

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