

Title (en)  
LIGHTWEIGHT VALVE

Title (de)  
LEICHTBAUVENTIL

Title (fr)  
SOUPAPE LEGERE

Publication  
**EP 1053388 B1 20031210 (DE)**

Application  
**EP 99908830 A 19990128**

Priority  
• DE 19804053 A 19980203  
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Abstract (en)  
[origin: DE19804053A1] The invention relates to a hollow-stem valve for an internal combustion engine. Said valve has a ratio of wall thickness to stem diameter of less than 1:3. The aim of the invention is to minimise the deformation of the valve head. To this end, the valve disk rests directly against the stem.

IPC 1-7  
**F01L 3/02**; **F01L 3/04**

IPC 8 full level  
**F01L 3/02** (2006.01); **F01L 3/04** (2006.01); **F01L 3/12** (2006.01); **F01L 3/20** (2006.01)

CPC (source: EP US)  
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**DE 19804053 A1 19990805**; AR 018055 A1 20011031; BR 9908554 A 20011030; DE 59908022 D1 20040122; EP 1053388 A1 20001122;  
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**DE 19804053 A 19980203**; AR P990100450 A 19990203; BR 9908554 A 19990128; DE 59908022 T 19990128; EP 03014001 A 19990128;  
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