

Title (en)
STEAM ENGINE

Title (de)
DAMPFMOTOR

Title (fr)
MOTEUR À VAPEUR

Publication
EP 3271557 B1 20201125 (EN)

Application
EP 15709956 A 20150316

Priority
EP 2015055417 W 20150316

Abstract (en)
[origin: WO2016146159A1] Steam engine comprising: a cylinder (10), a steam chamber (44) to be supplied with live steam, the steam, chamber (44) having an opening (43) for introducing live steam into the cylinder (10) and a valve seat (59), a valve member (52) urged against the valve seat (59) by an elastic element (60) in a closing position closing the opening (43), a piston (30) slidable within the cylinder (10) between a bottom dead center and a top dead center, wherein the piston (30) has a projection (34) at its top end (33) facing the opening (43), the projection (34) lifting the valve member (52) against a spring force of the elastic element (60) from the valve seat (59), when the piston (30) is in the area of the top dead center for releasing the opening (43), wherein the valve member has a shaft (53), extending through the steam chamber (44), and a valve disc (55) disposed, at a first end (54) of the shaft (53), wherein the elastic element (60) is disposed outside the steam chamber (44) at a second end (57) of the shaft (53) opposite to the first end (54).

IPC 8 full level
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CPC (source: EP)
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Citation (examination)

- US 8807012 B1 20140819 - BENNETT CHARLES L [US], et al
- US 1643158 A 19270920 - GEORGE GEDDIS
- WO 2010099941 A1 20100910 - VOITH PATENT GMBH [DE], et al

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