

Title (en)  
Steam turbine plant with regulated bleeding.

Title (de)  
Dampfturbinenanlage mit geregelter Anzapfung.

Title (fr)  
Installation de turbine à vapeur avec soutirage réglé.

Publication  
**EP 0355545 A1 19900228 (FR)**

Application  
**EP 89114527 A 19890807**

Priority  
FR 8810921 A 19880816

Abstract (en)  
[origin: JPH0281906A] PURPOSE: To shorten length of a turbine rotor by dividing and arranging extraction function and extraction pressure adjustment function. CONSTITUTION: An extraction pipe 10 is arranged in the middle point of a steam turbine 1 having 7 stages. On the other hand, a servo controlled valve 11 is arranged in an exhaust pipe 9. And, a servo control circuit 12 includes a means that compares a standard signal generated by a set point generator 13 with output signals generated by a pressure sensor 14 positioned in the extraction pipe 10. So, the extraction is controlled in a predetermined range of extraction rate by controlling the servo control valve 11 with the servo control circuit 12. As the extraction function and the extraction pressure adjust function are physically divided, length of the turbine rotor is shortened.

Abstract (fr)  
Installation de turbine à vapeur (20, 21) avec soutirage (27) réglé à une pression P déterminée, entraînant un organe récepteur (24), comprenant une sortie de soutirage (27) disposée entre deux étages successifs (20, 21), caractérisée en ce que la pression P de soutirage est réglée, dans une certaine plage D du débit de soutirage, au moyen d'une servo-vanne (28) disposée sur la conduite d'échappement (22) et commandée à partir d'un circuit d'asservissement (29) comprenant un moyen de mesure (31) de la pression du débit de soutirage.

IPC 1-7  
**F01D 17/08**; **F01K 7/16**; **F01K 7/34**

IPC 8 full level  
**F01K 7/38** (2006.01); **F01D 17/08** (2006.01); **F01D 17/10** (2006.01); **F01K 7/34** (2006.01)

CPC (source: EP US)  
**F01D 17/08** (2013.01 - EP US); **F01D 17/105** (2013.01 - EP US); **F01K 7/345** (2013.01 - EP US)

Citation (search report)  
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• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 22 (M-354)(1745) 30 janvier 1985, & JP-A-59 168203 (MITSUBISHI JUKOGYO) 21 septembre 1984,  
• [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 148 (M-308)(1585) 11 juillet 1984, & JP-A-59 46303 (TOKYO SHIBAURA DENKI K.K.) 15 mars 1984,

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**EP 89114527 A 19890807**; DE 68902198 T 19890807; ES 89114527 T 19890807; FR 8810921 A 19880816; JP 20556789 A 19890808; US 39320989 A 19890814