

Title (en)

System for dumping hydraulic pressure to turbine inlet valves in case of overspeed

Title (de)

Schnellentleerungsvorrichtung für Hochdrucköl eines Dampfturbineneinlassventils bei Überdrehzahl

Title (fr)

Dispositif pour provoquer la chute de pression de l'huile haute pression de commande des soupapes d'admission d'une turbine en cas de survitesse

Publication

EP 0533535 B1 19970102 (FR)

Application

EP 92402473 A 19920910

Priority

FR 9111509 A 19910918

Abstract (en)

[origin: EP0533535A1] The device comprises an overspeed trigger (2) secured to the shaft (1) of the turbine and fed, downstream of a restriction (5), with low-pressure oil via the oil lubrication circuit of the turbine, characterised in that it comprises a hydrovalve (9) comprising a body (23) containing a blocking shutter (24) for a discharge orifice (12) connected to the high-pressure oil circuit, the locking shutter (24) being connected to a plate (25) separating the inside of the hydrovalve body (9), in a sealed fashion, into two compartments one (11) of which is located on the discharge orifice side (12) and comprising an evacuation orifice (37) and the other of which, called the second compartment (8), is supplied, downstream of a restriction (5), by a feed orifice (7), with oil from the low-pressure circuit, the second compartment (8) being further connected to the overspeed trigger (2), and in that the moving part (10) consisting of the blocking shutter (24) and the plate (25) is axially guided by guide means (27, 28, 29), the moving part being further subjected to an elastic force (33) in the direction for freeing the shutter (4) from the discharge orifice (12). <IMAGE>

IPC 1-7

F01D 21/18

IPC 8 full level

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CPC (source: EP US)

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