

Title (en)  
VARIABLE NOZZLE TURBOCHARGER WITH SHEET METAL SHROUD

Title (de)  
TURBOKOMPRESSOR MIT VERSTELLBAREN LEITSCHAUFELN UND SCHNECKENGEHÄUSE/EINLAUF AUS BLECH

Title (fr)  
TURBOCOMPRESSEUR A GEOMETRIE VARIABLE AVEC VIROLE EN TOLE

Publication  
**EP 1303683 B1 20080730 (FR)**

Application  
**EP 00953257 A 20000719**

Priority  
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Abstract (en)  
[origin: WO0206637A1] The invention concerns a variable nozzle turbocharger using a cartridge (34) comprising vanes in a turbine intake nozzle formed by a base (38) fixed to a central casing (18) and a casing insert (64) fixed to the base (38). A separate exhaust case (24) is received on the cartridge (34) outside the casing insert (64) so as to provide an intake and an outlet for the exhaust gases driving the turbocharger turbine wheel.

IPC 8 full level  
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Cited by  
DE102008053170A1; DE102009015353A1; US10436069B2; US10494955B2; US10472988B2; DE102011075794A1; WO2012156110A2;  
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EP 1303683 A1 20030423; EP 1303683 B1 20080730; EP 1303683 B2 20120919; HU P0301321 A2 20030828; JP 2004505190 A 20040219;  
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CN 00817123 A 20000719; DE 60039723 T 20000719; EP 00953257 A 20000719; HU P0301321 A 20000719; JP 2002512514 A 20000719;  
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