

Title (en)  
A GAS TURBINE ARRANGEMENT

Title (de)  
GASTURBINENANORDNUNG

Title (fr)  
DISPOSITIF DE TURBINE À GAZ

Publication  
**EP 2044296 A2 20090408 (EN)**

Application  
**EP 07787838 A 20070724**

Priority  
• EP 2007057595 W 20070724  
• GB 0614687 A 20060725

Abstract (en)  
[origin: GB2440343A] A turbine comprises turbine blades 3, an annular diffuser 5 and a collector (exhaust) 7, the diffuser 5 being downstream of the blades 3, and the collector 7 being downstream of the diffuser 5. The collector 7 comprises an annular main part 9 and a neck exit 11 located radially outwards thereof. In use the working fluid passes through the blades 3 and diffuser 5 to the collector 7 where it is split into two flows which travel around opposite sides thereof and arrive at the neck exit 11 travelling in opposite directions, the neck exit 11 comprising a partition 19 which keeps the opposed flows substantially separate therein. The diffuser 5 may have a curved shroud rim 15 which may comprise a flat rim extension (29, figure 11) or a spiral rim extension (31, figure 11) to increase pressure recovery.

IPC 8 full level  
**F01D 25/30** (2006.01)

CPC (source: EP GB US)  
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