

Title (en)
Compressor wheel assembly.

Title (de)
Aufbau eines Verdichterlaufrades.

Title (fr)
Assemblage de roue de compresseur.

Publication
EP 0129311 A1 19841227 (EN)

Application
EP 84302654 A 19840418

Priority
US 48714483 A 19830421

Abstract (en)
A compressor wheel assembly for example for a turbocharger comprises a compressor wheel (12) including a boreless hub (14) formed integrally as by casting from aluminium with a circumferential array of aerodynamically contoured centrifugal impeller blades (16). The wheel hub is secured at its base by inertia welding to a steel thrust spacer sleeve (18) having an internally threaded bore (34) for threaded reception of a rotatable shaft (20). In use of the compressor wheel assembly, the absence of a bore within the wheel hub substantially improves wheel fatigue life.

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F01D 5/04

IPC 8 full level
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CPC (source: EP)
F01D 5/025 (2013.01); **F01D 5/048** (2013.01); **F04D 29/266** (2013.01)

Citation (search report)
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• [A] US 2465625 A 19490329 - GEORGE AUE
• [Y] DIESEL AND GAS TURBINE WORLDWIDE CATALOG, edition 1982, vol. 47, pages 1209-1211, Brookfield, Wisconsin, US; "High pressure ratio turbochargers available"

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