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• **Gregg, Shawn J.**  
**Wethersfield**  
**CT 06109 (US)**

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(71) Applicant: **United Technologies Corporation**  
**Hartford, CT 06101 (US)**

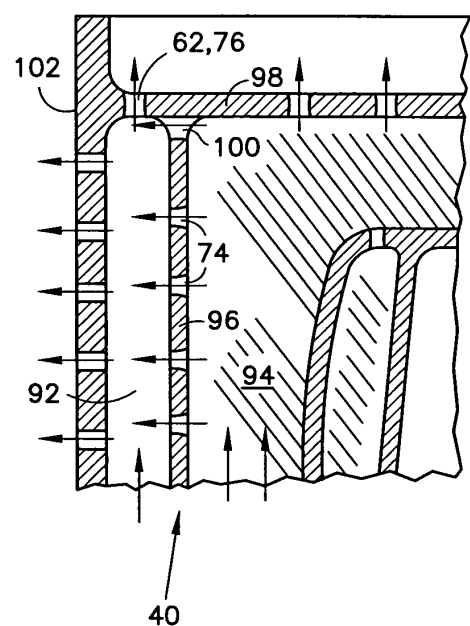
(74) Representative: **Leckey, David Herbert**  
**Frank B. Dehn & Co.**  
**St Bride's House**  
**10 Salisbury Square**  
**London**  
**EC4Y 8JD (GB)**

(72) Inventors:  
• **Mongillo, Jr., Dominic J.**  
**West Hartford**  
**CT 06107 (US)**

(54) **Cooled rotor blade**

(57) A rotor blade (14) is provided that includes a root (20) and a hollow airfoil (22). The hollow airfoil has a cavity, a leading edge (32), and a tip (30). An internal passage configuration is disposed within the cavity that includes a first radial passage (92), a second radial passage (94), and a rib (96) disposed between the passages (92,94). The passages (92,94) and the rib (96) are contiguous with a tip endwall (98). The first radial passage (92) is disposed contiguous with the leading edge (32). A plurality of crossover apertures (74) are disposed in the rib (96). One of the crossover apertures (100) is disposed flush with the tip endwall (98). A conduit (42) is disposed within the root (20) that is operable to permit airflow through the root and into the passages. In some embodiments, an aperture (62,76) is disposed within the tip endwall (98) aligned with the first radial passage (92).

**FIG.6**





## EUROPEAN SEARCH REPORT

Application Number  
EP 05 25 3258

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 December 2008	Examiner Teissier, Damien
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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