CLAIMS

1. A fan comprising:

a fan rotor having a plurality of slots, with said slots each receiving a fan blade; and the fan blades including an airfoil extending radially outwardly of a dovetail, said dovetail having edges at circumferential sides of the blade, a bottom surface of the dovetail defined at a radially inward location, and said bottom surface being formed such that a circumferentially central portion of said bottom surface is radially thicker than are circumferential edges; and wherein said dovetail is formed of a material that is less strong than a material forming the rotor.

2. The fan as set forth in claim 1, wherein said bottom surface increases generally constantly from the circumferential edges to the central portion.

3. The fan as set forth in claim 1, wherein said bottom surface is formed on a curve.

4. The fan as set forth in claim 3, wherein said bottom surface is convex.

5. The fan rotor as set forth in claim 4, wherein said dovetail is formed of a material that is less strong than a material forming the rotor.

6. A gas turbine engine comprising:

a fan configured to deliver air into a compressor section;

a combustion section; and

a turbine section;

said fan having a fan rotor with a plurality of slots, with said slots receiving a fan blade, and the fan blades including an airfoil extending radially outwardly of a dovetail, said dovetail having edges at circumferential sides of the blade, a convex bottom surface of the dovetail defined at an inward location, and said bottom surface being formed on a curve and being such that a circumferentially central portion of said bottom surface is radially thicker than are circumferential edges, and wherein said dovetail is formed of a material that is less strong than the material forming the rotor.

7. The gas turbine engine as set forth in claim 6, wherein said bottom surface increases generally constantly from the circumferential edges to the central portion.

8. The gas turbine engine as set forth in claim 6, wherein said dovetail is formed of a material that is less strong than the material forming the rotor.

9. The gas turbine engine as set forth in claim 6, wherein said airfoil extends from a leading edge to a trailing edge, and has suction and pressure sides, and the circumferential edges of said fan blade extend along said suction and pressure sides.