

ABSTRACT

AN APPARATUS AND A METHOD OF SHAPING AN EDGE OF AN AEROFOIL

An apparatus (100) for shaping an edge (46) of an aerofoil (44), the
5 method comprising first and second brushes (102, 104) and each brush (102,
104) comprises a plurality of bristles extending substantially parallel to each
other. A first motor (110) rotates the first brush (102) about a first axis (112) and
a second motor (114) rotates the second brush (104) about a second axis (116).
The axes (112, 116) are arranged substantially parallel to the bristles of the
10 respective brush (102, 104). A support structure (118) holds the first brush (102)
such that the first axis (112) intersects a first surface (54) of the edge (46) of the
aerofoil (44) and holds the second brush (104) such that the second axis (116)
intersects a second surface (56) of the edge (46) of the aerofoil (44). There are
means to move the first brush (102) such that the first brush (102) contacts the
15 first surface (54) of the edge (46) and means to move the second brush (104)
such that the second brush (104) contacts the second surface (56) of the edge
(46). There are means to produce relative movement the first and second
brushes (102, 104) and the aerofoil (44) such that the first and second brushes
(102, 104) move longitudinally along the edge (46) of the aerofoil (44) to shape
20 the edge (46) of the aerofoil (44).

(Figure 3)