

AN EXHAUST VALVE FOR AN INTERNAL COMBUSTION ENGINE, AND A
METHOD OF STRENGTHENING AN ANNULAR VALVE SEAT AREA IN AN
5 EXHAUST VALVE

ABSTRACT

10 An exhaust valve for an internal combustion engine comprises a valve disc
having a first side (14) and a second side (16), a valve stem extending
from the first side of the valve disc, and an annular valve seat area (11)
located at the first side of the valve disc. The annular valve seat area (11)
is of a nickel-base alloy or a chromium-base alloy and has a valve seat
15 surface. The annular valve seat area has at least a first annular portion
(43) located in between two second annular portions (42). The first annu-
lar portion has lower hardness than the two second annular portions.

(Fig. 10)