

Title (en)

Valve seat facing device.

Title (de)

Vorrichtung zum Bearbeiten der Sitzfläche von Ventilgehäusen.

Title (fr)

Dispositif pour l'usinage des surfaces d'appui de soupapes.

Publication

EP 0094223 A2 19831116 (EN)

Application

EP 83302574 A 19830506

Priority

AU PF390482 A 19820507

Abstract (en)

The present invention provides a device for lapping valve seats (16) of for example steam valves in a power generating station. The device includes means for providing torque to be applied to a crankshaft (20) which includes an eccentric shaft on (28) at least one of its extreme ends. Mounted on each eccentric shaft (28) by way of a loose fitting bearing (33) is a facing disc (23) which are interchangeable to allow different sizes and abrasive grades to be used. During operation the facing discs (23) are pressured towards their respective valve seats (16) being lapped by helical springs (74) held within counterbores (73) of each eccentric shaft (28) thus urging the discs (23) axially outwardly of the crankshaft (20). During rotation of the crankshaft (20) the discs (23) tend to orbit around the valve seat (16) being faced at a slow rate while moving substantially radially inwardly and outwardly at the rotational frequency of the crankshaft (20). The device therefore provides a relatively fast and accurate refacing operating to the valve seats (16) which may have been worn or scratched during use. Further the apparatus saves the valve having to be removed from its steam line and thus greatly reduces overall time involved in the operation.

IPC 1-7

B24B 15/02

IPC 8 full level

B24B 15/00 (2006.01); **B24B 15/02** (2006.01)

CPC (source: EP)

B24B 15/02 (2013.01)

Cited by

US4549373A; USRE32873E

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0094223 A2 19831116; **EP 0094223 A3 19850522**; JP S5942263 A 19840308; ZA 833164 B 19840125

DOCDB simple family (application)

EP 83302574 A 19830506; JP 7997783 A 19830507; ZA 833164 A 19830504