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ABSTRACT (Fig. 4)

"ANNULAR CUTTER CONNECTING APPARATUS AND ANNULAR CUTTER"

5 An annular cutter connecting apparatus includes an
arbour (101), annular cutter fixing locking members
(113) received in holding holes (112) formed in the
lower end portion (111) of the arbour (101) and a sleeve
10 (118) surrounding the lower end portion (111) of the
arbour (101), for connecting an annular cutter (130A) to
the arbour (101). The sleeve (118) has a first control
face (119) having an inner diameter equal to the outer
15 diameter of the lower end portion (111) of the arbour
(101), for projecting the locking members (113) into the
central bore (102) by a predetermined length when the
first control face (119) engages the locking members
(113), and second control faces (120) formed
20 circumferentially in the first control face (119), for
receiving the locking members (113). The sleeve (118)
is rotatable around its own axis so as to cause the
locking members (113) to selectively face the first
control face (119) and the second control faces (120),
respectively. An annular cutter (130A) has a shank
25 portion (132A) provided with locking member passing
portions (133) on that part of the outer peripheral
surface of the shank portion (132A) which corresponds to
the holding holes (112) of the annular cutter connecting
apparatus. The shank portion (132A) has depressed
30 locking member receiving portions (134A) formed in the
locking member passing portions 133 and receive the
locking members (113). The annular cutter (130) is
connected to and removed from the arbour (101) in one-
touch operation.