

Title (en)

GRINDING SYSTEM COMPRISING A GRINDER AND A GRINDING WHEEL AND METHOD TO EXCHANGE INFORMATION BETWEEN GRINDER AND GRINDING WHEEL

Title (de)

SCHLEIFSYSTEM MIT SCHLEIFER UND SCHLEIFSCHEIBE UND VERFAHREN ZUM AUSTAUSCH VON INFORMATIONEN ZWISCHEN SCHLEIFER UND SCHLEIFSCHEIBE

Title (fr)

SYSTÈME DE BROYAGE COMPRENANT UN BROYEUR ET UNE MEULE ET PROCÉDÉ D'ÉCHANGE D'INFORMATIONS ENTRE BROYEUR ET MEULE

Publication

EP 3608059 A1 20200212 (EN)

Application

EP 19189486 A 20190731

Priority

IT 201800008047 A 20180810

Abstract (en)

This invention concerns a grinding system comprising a grinder (30) and an abrasive grinding wheel (1). The grinder (30) comprises an actuating arm (31) adapted to receive the grinding wheel (1), an actuator (33) coupled to the actuating arm (31) to rotatably drive or translate it along a driving axis, an electronic control unit (35) operatively coupled to the actuator (33) and a transceiver unit (39) coupled to the control unit (35) and adapted to transmit electromagnetic signals. The grinding wheel (1) is fixed to the actuating arm (31) of the grinder (30). The grinding wheel (1) comprises a body (10) which has at least one abrasive surface (13) intended to come into contact with a workpiece to be machined, and an electronic unit (20) coupled to the body (10). Furthermore, the transceiver unit (39) of the grinder (30) comprises a plurality of resonant circuits (391) arranged aligned along an axis parallel to the driving axis of the actuating arm (31), whereas the electronic unit (20) of the grinding wheel (1) comprises a further resonant circuit (271) having a resonance frequency equal to or close to the resonance frequency of the resonant circuits (391) of the transceiver unit (39).

IPC 8 full level

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CPC (source: EP)

B24B 7/167 (2013.01); **B24B 49/14** (2013.01)

Citation (applicant)

- US 7840305 B2 20101123 - BEHR ANDREW H [US], et al
- US 2018158707 A1 20180607 - HUNTER EARL [US], et al

Citation (search report)

- [A] US 2018158707 A1 20180607 - HUNTER EARL [US], et al
- [A] US 2016328637 A1 20161110 - VIIKARI VILLE [FI]
- [A] US 2001049252 A1 20011206 - MOORE SCOTT E [US]

Cited by

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