Title (en)

Polishing tool powered by air pressure

Title (de)

Mit Druckluft angetriebenes Polierwerkzeug

Title (fr)

Outil de polissage entraîné à l'air comprimé

Publication

EP 0691181 B1 19980916 (EN)

Application

EP 95109746 A 19950622

Priority

JP 14910194 A 19940630

Abstract (en)

[origin: EP0691181A1] Favorable finishing is achieved in polishing, and it is not necessary to interrupt the work for cooling or cleaning the workpiece surface by injecting cooling air during the polishing work so as to clean both the tool side and workpiece side, and also scatter the polishing waste chips by the flow of air so as to clean the working surface. Compressed air for working is introduced into a main body (3) from a single connection port (5), and is branched into two passages within the tool main body, and one passage is used as driving source passage (19a) for an air motor (11), while the other passage is used as cooling air passage (19b) for injecting from a vent hole (23) provided in the central part of the polishing working surface through an air passage (21) in a motor rotary shaft (12), and independently acting control valves (10,13) are provided in the individual passages. By injecting part of the compressed air for working from the vent hole (23) into the central part of the polishing working surface, a flow of compressed air is formed from the center of the working surface to the outer side even during polishing process, so that the tool and the workpiece surface are cooled, and moreover by the flow of air, the polishing waste chips are scattered, and the working surface is cleaned, so that continuous work is enabled. <MATH>

IPC 1-7

B24B 23/02; B24B 55/02

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Cited by

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