

Title (en)

Machine for performing a roughing operation progressively along marginal portions of shoe bottoms.

Title (de)

Vorrichtung zum fortschreitenden Aufrauhen von Randbereichen der Schuhböden.

Title (fr)

Machine pour le cardage progressif des parties marginales des dessous de chaussure.

Publication

EP 0043645 A1 19820113 (EN)

Application

EP 81302395 A 19810601

Priority

- GB 8019008 A 19800610
- US 15814980 A 19800610

Abstract (en)

A computer-controlled machine for progressively roughing marginal portions of shoe bottoms comprises a tool support arm [30], on which two rotary roughing brushes [168] are carried side-by-side, and a shoe support [18] between which and the arm [30] relative movement takes place lengthwise, widthwise and heightwise of the shoe bottom. The relative lengthwise movement is fore-and-aft, one of the tools [168] operating on the shoe bottom during forward movement, and the other [168] during rearward movement. For effecting relative movement in three dimensions numerically controlled motors [144, 84, 122] are used. Also a further motor [232] controls tilting of the brushes [168] about a transverse axis passing through their operating surfaces. Grinding means [630] is also provided, comprising grinding stones [630] rotating in such a manner that the operative surfaces thereof are moving in the same direction as the brush surface portions being ground, but at significantly greater speed.

IPC 1-7

A43D 37/00

IPC 8 full level

A43D 37/00 (2006.01)

CPC (source: EP)

A43D 37/00 (2013.01)

Citation (search report)

- US 3733632 A 19730522 - BERCHTOLD J
- US 3735437 A 19730529 - KROLIKOV B, et al
- GB 1217675 A 19701231 - BRITISH UNITED SHOE MACHINERY
- US 3769649 A 19731106 - IMHOF H
- FR 2138768 A1 19730105 - MOENUS MASCHF
- GB 1275287 A 19720524 - BATA SHOE COMPANY OF CANADA LT [CA]

Cited by

US4846919A; EP0250214A3; FR2529763A1; EP0079695A3; EP0726038A1; EP0091321A1; EP0353881A3; EP0351993A3; EP0150116A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0042671 A1 19811230; EP 0042671 B1 19850403; DE 3165979 D1 19841018; DE 3169651 D1 19850509; EP 0043645 A1 19820113; EP 0043645 B1 19840912; ES 503301 A0 19820416; ES 503302 A0 19820416; ES 8203205 A1 19820416; ES 8203206 A1 19820416

DOCDB simple family (application)

EP 81302396 A 19810601; DE 3165979 T 19810601; DE 3169651 T 19810601; EP 81302395 A 19810601; ES 503301 A 19810609; ES 503302 A 19810609