

Title (en)

Method for binding paper sheets.

Title (de)

Verfahren zum Verbinden von Papierlagen.

Title (fr)

Procédé de reliure de feuilles de papier.

Publication

EP 0390733 B1 19940810 (DE)

Application

EP 90810180 A 19900308

Priority

CH 115689 A 19890330

Abstract (en)

[origin: EP0390733A2] The method for stapling layers of paper is based on a bond under ultrasonic action. The sheets of paper are pretreated by means of a bonding agent by printing on, spraying on or impregnation with droplets before, during or after the printing. The ultrasonic action is performed by means of a [lacuna] comprising an ultrasonic vibrator 20 and a control device. The vibrator has a conical or blade-shaped stapling tool, the sonotrode 24. The latter is pressed during the ultrasonic action against the layers of sheets 26 which, in turn, rest against a plate-shaped or ridge-shaped counterbearing 27. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

US5564685A; DE102013225737A1; US5716182A; EP0888907A1; US6042318A; US5634758A; CN113543963A; US10723096B2; US11541623B2; WO9925547A1; WO03057461A1; EP1588971A1; US8342317B2; EP3079895B1; EP3188915B1

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