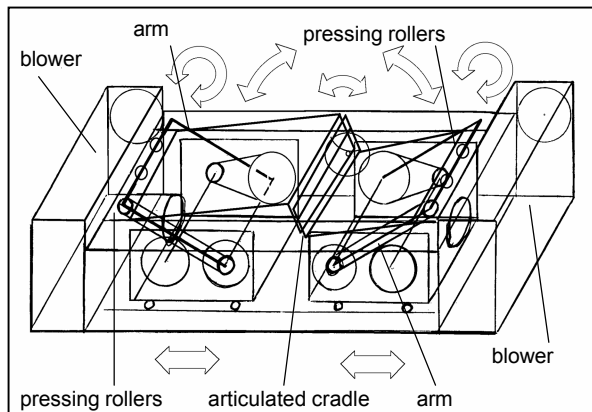


ALICE-INNOVATION

CRADLE FOR AUTOMATIC SCANNING OF BOUND DOCUMENTS

January 2009

PRELIMINARY



A patented design

The patented design features a cradle in which is placed an open book in the field of view of a digital static camera.

Pressing rollers in the margins make it possible to automatically turn the pages at a rate of approximately a page a second. The position of the rollers in the margins is controlled automatically from the real-time analysis of the digitized pages.

The rotational movement of the rollers starts the separation of the top page which is then pulled by the flow of air produced by one of the two side blowers with which the apparatus is provided.

The book rests on a cradle articulated on the level of the back whose orientation is also controlled automatically in order to minimize the curvature of the pages.

A new concept to scan books and bound volumes.

High labor costs prevent until today scanning of large files of books or other bound documents (Patents, magazines, registers...).

The support derived from the NADAR * is well adapted for on-demand automatic digitalization of volumes of heterogeneous formats.

Used with a digital static camera coupled to a laser printer or a digital copier, it makes it possible to implement the ideal station for copying book pages for libraries.

*Numériseur Automatique de Documents Assemblés ou Reliés (Automatic digitizer of joined or bound documents)

Specifications

Description: Cradle for automatic scanning of books or bound documents.

Mechanical design: hull and plates in ABS; aluminum frame; high precision electromechanical system.

Size of original: footprint of the open book 334X500 mm.

Page turning rate: 1 page/s

Operation and system control: PC connected to a digital static camera; image processing board.

Interface: USB et //.

Size: 740x440x100 mm.

Weight: 8 kg

Power supply: 230 V 50 Hz 150W

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