

Title (en)

Apparatus for preservation of paper

Title (de)

Konstruktion zur Papierkonservierung

Title (fr)

Appareil pour la préservation du papier

Publication

**EP 1211352 B1 20051116 (DE)**

Application

**EP 01113770 A 20010605**

Priority

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Abstract (en)

[origin: EP1211352A1] The assembly to preserve printed paper materials and documents has an initial bath (1) to contain a solution, and a transport system to carry the paper sheets through the solution in the bath. The transport system has a shrouding (2,3) to cover the carried paper sheets, with walls which are permeable to fluid, and moved through the bath by rollers (4-7). The assembly to preserve printed paper materials and documents has a permeable shrouding to cover them, while moving through the bath, as a netting or braiding of wires or filaments of metal, plastics or plastics coated with rubber. The shrouding for the material being treated is formed by two conveyor belts pressed together. The transport system incorporates bristles (8), especially fitted to one roller, to detach the paper sheets from the conveyor belt shrouding on leaving the bath. The assembly has a second bath (9), preferably heated, with a link to the first bath so that liquid is pumped from the second bath back to the first, and liquid flows through an overflow pipe from the first bath into the second.. The two conveyor belts, pressed together with the paper sheets between them, are distorted into a semi-circle while passing through the first bath through the rollers arranged in a semi-circle. The first bath has a spray tube (11), to spray or flush the carrier paper sheets with liquid, structured to release the sheets from the conveyor on or after leaving the bath. The assembly has a photo sensor, connected to an evaluation unit, to register the passage of the paper sheets and especially in numbers. The two conveyor belts form a pocket to carry the paper sheets through the bath, with their edges bonded together by stitching and/or welding. A conventional photographic developing machine is used for the first bath and the transport system. A drying unit is after the first bath, using blown air directed at the wet paper sheets carried on a permeable belt. The dried paper sheets are finally ironed.

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