

The invention relates to information technologies and can be used to protect paper documents from forgery.

The cryptographically secure paper document contains an identification tag, made in the form of an individual image, consisting of a plurality of perforations, randomly obtained by an electric discharge process, and a digital code. The document further contains a two-dimensional barcode, which includes information about the individual image, the digital code, the content of the document, and a digital signature.

The method for marking a paper document consists in applying on it the above identification tag, its scanning with a scanning and processing storage device, compressing the scanned image, introducing into the memory of the scanning and processing device the information about the identification tag and the content of the document, signing the said information with the digital signature, conversing the signed information into a two-dimensional barcode, imprinting the obtained two-dimensional barcode on the paper document next to the identification tag.

The method for identifying a paper document consists in reading the two-dimensional barcode imprinted on it with the help of a scanning and processing storage device, disclosing the digital signature using the public key, obtaining the compressed information about the identification tag, identifying the paper document by comparing the information obtained as a result of reading the two-dimensional barcode and the compressed scanned image on the paper document.

Claims: 3

Fig.: 3