



Inkjet Printed Indicator

THE PROBLEM

The most stringent demands of packaged foodstuffs include a hermetic seal, low oxygen content, sufficiently low storage temperature of the food package and good microbial quality and hygienic processing conditions. If the protective gas of a gasfilled package leaks out, oxygen which is a deleterious agent as to the extended acceptable quality of most products can enter the package, whereby the prolonged aging time gained by the initial protective gas filling is lost. Another problem might be possible hazardous contaminants present in the product affecting negatively to the product safety and quality maintenance. Therefore there is a great demand for technologies that can automatically/visually determine the condition of each packed product.

THE INVENTION

VTT's technologies check the condition of a package or packaged product e.g. in the production facility, wholesale and/or retail shop or by consumer. Inkjet printed indicator is a nondestructive method to notice a leakage, opening of a package, deterioration of a product and a method to read information optically. Very low cost indicators are printed using inkjet technique. The indicators can be printed as bar code or 2D codes and the information can be read optically e.g. by camera phone. (PCT/FI04/000252).

VTT is looking for an industrial partner to commercialize the inventions.

VTT produces research services that enhance international competitiveness of companies, society and other customers at all stages of their innovation process, and thereby creates the prerequisites for growth, employment and wellbeing.

VTT promotes the realisation of innovative solutions and new businesses by foreseeing the future needs of its customers already in strategic research.

With its 2,700 employees, VTT is the largest research organization in Northern Europe. VTT's Ventures operation creates profitable and growing technology and wellbeing as well as more effective use of VTT produced Intellectual Property Rights.

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