



(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**02.05.2001 Bulletin 2001/18**

(51) Int Cl.7: **B41F 33/00, G01N 1/04**

(43) Date of publication A2:  
**11.10.2000 Bulletin 2000/41**

(21) Application number: **00106883.2**

(22) Date of filing: **31.03.2000**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

(72) Inventor: **Cerutti, Roberto**  
**I-15030 Conzano Monferrato (IT)**

(74) Representative: **Robba, Pierpaolo et al**  
**Interpatent,**  
**Via Caboto 35**  
**10129 Torino (IT)**

(30) Priority: **02.04.1999 IT TO990262**

(71) Applicant: **CERUTTI SPIRITO IMPIANTI S.R.L.**  
**15030 VILLANOVA MONFERRATO (AL) (IT)**

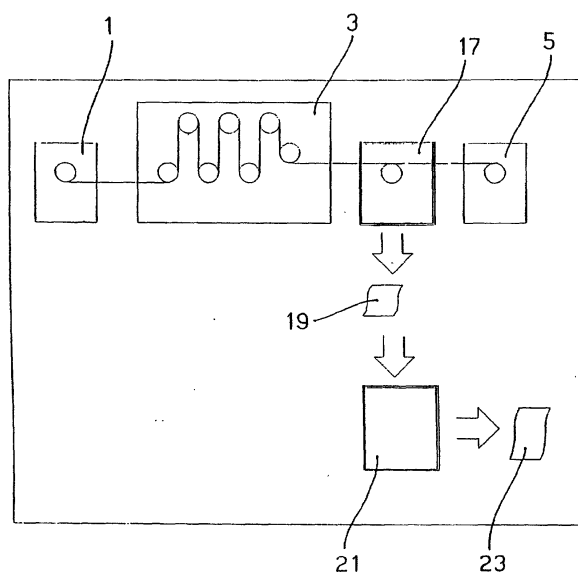
(54) **An integrated system for evaluating the residual solvent contained in packaging films during the printing process at the manufacturing plants**

(57) An integrated system for evaluating the residual solvent in packaging films during the printing process at the manufacturing plants, comprising:

- a device (17) for the automatic on-line taking of the

sample (19) to be analysed;

- a single analyser (21) that embodies the functions of three laboratory instruments: headspace or desorption unit, gas chromatograph and data system, with comparable analytical results.



**FIG. 2**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 00 10 6883

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	DE 44 42 240 A (FOGRA FORSCHUNGSGESELLSCHAFT D) 30 May 1996 (1996-05-30) * the whole document *	1	B41F33/00 G01N1/04
A	---	2-16	
Y	US 5 792 423 A (MARKELOV MICHAEL) 11 August 1998 (1998-08-11) * the whole document *	1	
A	---	2-16	
P,A	WO 99 39175 A (ZESIGER THIERRY) 5 August 1999 (1999-08-05) * abstract; claims; figures *	1,10-16	
A	US 2 519 159 A (TALBOT) 15 August 1950 (1950-08-15) * the whole document *	2-9	
A	US 4 577 516 A (WYSER JOHANN) 25 March 1986 (1986-03-25) * the whole document *	2-9	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G01N B41F
<del>The present search report has been drawn up for all claims</del>			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>24 October 2000</b>	Examiner <b>MADSEN P. A.</b>
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03 82 (P04C01)



European Patent  
Office

Application Number  
EP 00 10 6883

### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-16



European Patent  
Office

**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 00 10 6883

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

**1. Claims: 1-16**

Integrated system for evaluating the residual solvent contained in cut-out samples of packaging film during a printing proces.

**2. Claims: 17,18**

Method for measuring the concentration of residual solvent contained in samples of packaging film during a printing proces.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 10 6883

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-10-2000

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4442240	A	30-05-1996	NONE	
US 5792423	A	11-08-1998	US 5441700 A	15-08-1995
WO 9939175	A	05-08-1999	EP 1051603 A	15-11-2000
US 2519159	A	15-08-1950	NONE	
US 4577516	A	25-03-1986	NL 8302175 A	16-01-1985
			AT 36991 T	15-09-1988
			DE 3473854 D	13-10-1988
			EP 0129297 A	27-12-1984
			JP 60023247 A	05-02-1985