(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **25.08.2004 Bulletin 2004/35** 

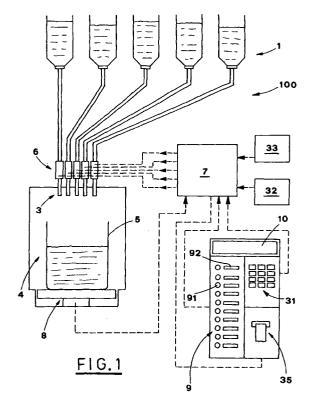
(51) Int CI.7: **B01F 13/10**, B01F 15/04, B01F 15/00, B65B 3/30

- (43) Date of publication A2: 16.06.2004 Bulletin 2004/25
- (21) Application number: 03028165.3
- (22) Date of filing: 08.12.2003
- (84) Designated Contracting States:

  AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
  HU IE IT LI LU MC NL PT RO SE SI SK TR
  Designated Extension States:

  AL LT LV MK
- (30) Priority: 10.12.2002 IT BO20020774
- (71) Applicant: Valpaint S.r.I. 60020 Polverigi (Ancona) (IT)

- (72) Inventor: Sarti, Ferdinando 60335 Jesi (Ancona) (IT)
- (74) Representative: Dall'Olio, Giancarlo INVENTION s.a.s., Via delle Armi, 1 40137 Bologna (IT)
- (54) Apparatus for dosing colored pigments and for mixing the pigments with a predetermined quantity of paint or enamel to be coloured
- (57)The apparatus for dosing colored pigments and for introduction thereof into a product to be colored, is aimed at allowing the direct use thereof by an unskilled user. The apparatus includes a plurality of tanks (1) containing colored pigments and connected to a corresponding number of delivery nozzles (3), which are situated in a coloring chamber (4). There is also a weighing machine 8, situated in the coloring chamber (4) and connected to a processing unit (7). A push-button panel (9) is connected to the processing unit (7), in order to allow to select the type of product to be colored. A numerical pad or alphanumeric keyboard (31) is likewise connected to the processing unit (7), in order to allow to select a color tonality. A display (10) is likewise connected to the processing unit (7) and is aimed at displaying data coming from the latter.





## **EUROPEAN SEARCH REPORT**

Application Number EP 03 02 8165

Category	Citation of document with in of relevant pass	dication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
X Y	US 6 340 030 B1 (GE 22 January 2002 (20 * column 1, line 8 * column 2, line 19 * figure 2 *	RRITSE JAN) 02-01-22) - line 24 *	1-5 6-14	B01F13/10 B01F15/04 B01F15/00 B65B3/30	
X Y	US 5 938 080 A (HAA 17 August 1999 (199 * column 1, line 9 * column 1, line 42 * column 4, line 35 * figure 1 *	9-08-17) - line 18 *	1-5 6-14		
Υ	W0 02/41981 A (US C 30 May 2002 (2002-0 * page 1, line 3 - * page 1, line 28 - * page 3, line 17 - * page 5, line 9 - * figure 1 *	5-30) line 7 * page 2, line 2 * line 24 *	6		
Y	EDWIN D (US); TEMPL 16 November 2000 (2 * page 1, line 7 - * page 5, line 1 - * page 5, line 35 - * page 6, line 30 -	O/68137 A (TIFFANY HARRY J III; NEAN D (US); TEMPLAR DENNIS L (US))  Ovember 2000 (2000-11-16)  Oge 1, line 7 - line 20 *  Oge 5, line 1 - line 9 *  Oge 5, line 35 - page 6, line 20 *  Oge 6, line 30 - line 35 *  Oge 7, line 7 - line 22 *  Ogures 1,2 *		TECHNICAL FIELDS SEARCHED (Int.CI.7)  B01F B65B	
Υ	US 4 911 212 A (BUR 27 March 1990 (1990 * column 4, line 45 * column 6, line 38 * figure 1 *	-03-27) - line 50 *	9-14		
	The present search report has I				
	Place of search The Hague	Date of completion of the search  8 July 2004		Examiner al Cabrera, R	
X : part Y : part doc A : tecl	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anotument of the same category noological background	T : theory or pring E : earlier paten after the filing ther D : document cit L : document c	nciple underlying the t document, but public date ted in the application ed for other reasons	invention iished on, or	



## **EUROPEAN SEARCH REPORT**

Application Number EP 03 02 8165

<u> </u>	Citation of document with indication	n, where appropriate.	Relevant	CLASSIFICATIO	ON OF THE
Category	of relevant passages	m, who o appropriate,	to claim	APPLICATION	
A	WO 98/30189 A (STEWART 16 July 1998 (1998-07-1 * the whole document *	ERNEST G) 6)	1-14		
Α	US 5 903 465 A (BROWN R 11 May 1999 (1999-05-11 * the whole document *		1-14		
				TECHNICAL F SEARCHED	IELDS (int.Cl.7)
	The present search report has been d	rawn up for all claims			
	Place of search  The Hague	Date of completion of the search 8 July 2004	Rea	Examiner  1 Cabrera,	R
X:par Y:par	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another rument of the same category hnological background	T : theory or prin E : earlier patent after the filing D : document cit	ciple underlying the i document, but publis	nvention	

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

EP 03 02 8165

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.

08-07-2004

Patent document cited in search report		Publication date	ł	Patent family member(s)		Publication date
US 6340030	B1	22-01-2002	NL	1006911	C2	04-03-199
			AU	9006898		22-03-199
			EP	1009641		21-06-200
			ĒS	2175761		16-11-200
			WO	9911474		11-03-199
US 5938080	Α	17-08-1999	ΑT	255032		15-12-200
			ΑU	744968		07-03-200
			ΑU	6937698	Α	09-09-199
			BR	9807595	Α	22-02-200
			CA	2291083	A1	27-08-199
			DE	69820071	D1	08-01-200
			EP		A1	27-11-200
			ΕP	1009655		21-06-200
			HU	0001338		28-06-200
			JP	2002501463	T	15-01-200
			NO.	994037	•	18-10-199
			PL	335354		25-04-200
			WO	9836968		27-08-199
WO 0241981	Α	30-05-2002	US	6543490		08-04-200
			ΑU	6867301		03-06-200
			CA	2429523	A1	30-05-200
			WO	0241981	A1	30-05-200
WO 0068137	Α	16-11-2000	AU	5126300	 A	21-11-200
			WO	0068137		16-11-200
US 4911212		27-03-1990	NONE			
WO 9830189	Α	16-07-1998	AU	6017498		03-08-199
			WO	9830189	A2 	16-07-199
US 5903465	Α	11-05-1999	ΑÜ	7535694	Α	21-03-199
			ΑU	9821798	Α	04-03-199
			CA	2168867	A1	02-03-199
			DE	69411923	D1	27-08-199
			DE	69411923	_	04-03-199
			WO	9505891		02-03-199
			EP	0715543		12-06-199
			ES	2120064		16-10-199
			JP	9502172		04-03-199
			ZA	9406411		23-02-199
			44	3400411	Λ	Z3-0Z-19:

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82