

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 787 457 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
13.08.1997 Bulletin 1997/33

(51) Int. Cl.⁶: **A47K 5/12**

(43) Date of publication A2:
06.08.1997 Bulletin 1997/32

(21) Application number: **97107839.9**

(22) Date of filing: **19.03.1993**

(84) Designated Contracting States:
BE CH DE DK FR GB IT LI NL SE

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
93104544.7 / 0 615 717

(71) Applicant: **INPACO CORPORATION**
Nazareth, Pennsylvania 18064 (US)

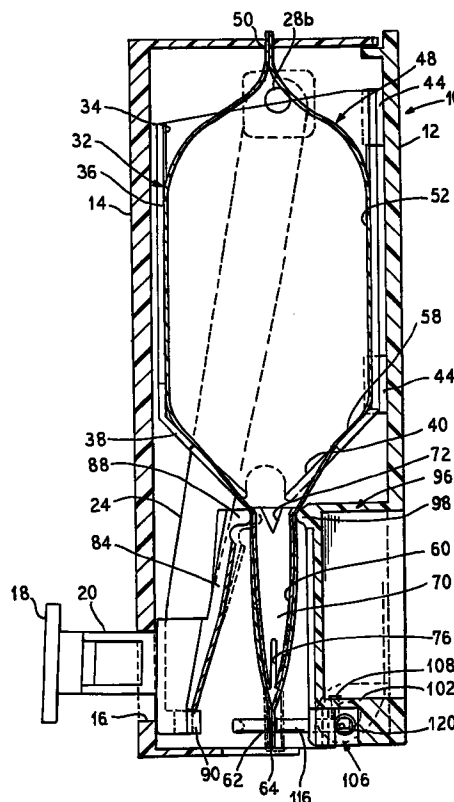
(72) Inventors:
• **Christine, William C.**
Nazareth, Pennsylvania 18064 (US)
• **Roth, Scott A.**
Danielsville, Pennsylvania 18038 (US)

(74) Representative: **Casalonga, Axel et al**
BUREAU D.A. CASALONGA - JOSSE
Morassistrasse 8
80469 München (DE)

(54) Liquid dispensing system

(57) A liquid dispensing system providing a housing holding a liquid filled pouch (48) inside, the housing pivotably supporting an actuating arm which is thrust against the pouch by a push button extending outside the housing, the actuating arm having an actuator (88) to compress an upper section of a tubular peristaltic pump section (70) of the pouch for squeezing out an incremental amount of liquid. The tubular peristaltic pumping section provides V-shaped notches arranged on lateral sides of the top section and the bottom section for ease of closure by flattening and other advantages. A check valve (106) having lever arms to resiliently stretch flat a discharge nozzle section at the lower end of the peristaltic pumping tube prevents dripping during non-use. A check valve actuator (90) is provided on the actuating arm to engage with the check valve lever arms to open the discharge nozzle during actuation and a short time thereafter to create a suck-back to remove any drips.

FIG. 1



EP 0 787 457 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 10 7839

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.6)
D,A	US 4 932 562 A (CHRISTINE) * column 6, line 23-56 * * column 8, line 56 - column 9, line 17 * * figures 1-19 * ---	1,2,9	A47K5/12
D,A	US 4 349 133 A (CHRISTINE) * column 2, line 54 - column 5, line 26; figures 1-7 * -----	2,6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A47K
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		30 May 1997	Kergueno, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03.82 (P04C01)