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(54) Title: UNIT FOR CONVEYING FILTER SEGMENTS

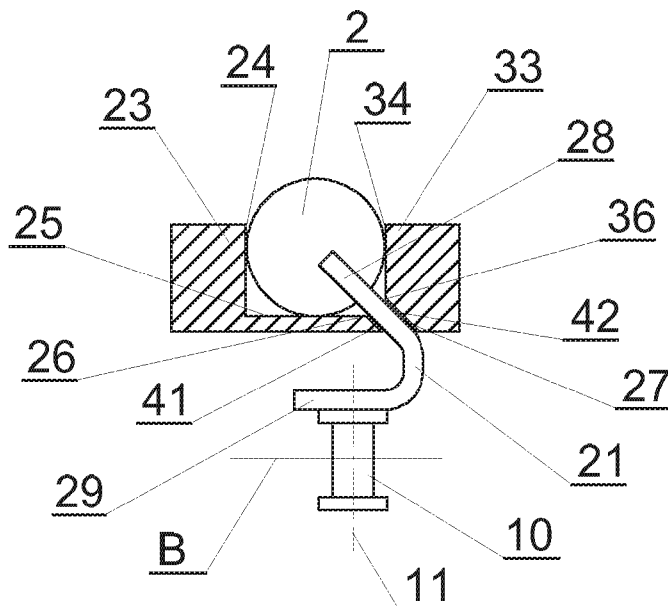


Fig. 3

(57) Abstract: The object of the invention is a unit for conveying filter segments (2) for the machines of tobacco industry, comprising a chain conveyor(10) in a horizontal arrangement on which the lugs (21) are disposed, the working ends(28) of which are deflected from the vertical. The unit comprises guides (23, 33) of the filter segments(2) provided with an inclined channel (27) guiding the lug (21).



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 287 979 A (MOLINS DESMOND W ET AL) 8 September 1981 (1981-09-08) column 4, lines 9-15; figure 4 -----	1
A	US 4 411 640 A (HALL FLOYD V [US]) 25 October 1983 (1983-10-25) column 8, lines 56-65; figure 7 -----	1
A	GB 915 203 A (DESMOND WALTER MOLINS; MOLINS MACHINE CO LTD) 9 January 1963 (1963-01-09) cited in the application page 2, lines 85-96; figure 4 -----	1
A	WO 2009/074540 A1 (CIESLIKOWSKI BARTOSZ [PL] ET AL) 18 June 2009 (2009-06-18) cited in the application abstract; figures -----	1



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4287979	A	08-09-1981	DE 2732959 A1	26-01-1978
			FR 2358845 A1	17-02-1978
			GB 1578738 A	05-11-1980
			IT 1113597 B	20-01-1986
			JP 1464765 C	10-11-1988
			JP 53015499 A	13-02-1978
			JP 63013673 B	26-03-1988
			US 4287979 A	08-09-1981

US 4411640	A	25-10-1983	NONE	

GB 915203	A	09-01-1963	CH 354380 A	15-05-1961
			DE 1166676 B	26-03-1964
			FR 1221119 A	31-05-1960
			GB 915203 A	09-01-1963
			US 2957285 A	25-10-1960

WO 2009074540	A1	18-06-2009	AT 550956 T	15-04-2012
			CN 101896083 A	24-11-2010
			EP 2230951 A1	29-09-2010
			EP 2449899 A1	09-05-2012
			ES 2385128 T3	18-07-2012
			JP 2011505818 A	03-03-2011
			KR 20100094563 A	26-08-2010
			TW 200936064 A	01-09-2009
			US 2009145449 A1	11-06-2009
			US 2012157278 A1	21-06-2012
			WO 2009074540 A1	18-06-2009
