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(54) **BABYGROW**

(57) A child jumpsuit, including a top head portion with a hood and a body portion with sleeves and legs, is characterized in that the body portion includes a detachable flap located on both sides of the jumpsuit's body portion and containing a narrow part located on the front side of the body portion of the jumpsuit from the head portion to the bottom of the jumpsuit between the legs, and an expanding part, located on the back part of the body portion, which is designed with an expansion up to the width of the middle of the jumpsuit's body portion. The proposed jumpsuit design allows to perform any hygienic manipulations easily and quickly, without taking the jumpsuit off and without taking the child's legs out of the jumpsuit legs - for example, putting the child on a potty, going to the bathroom, changing diapers, daily hygiene procedures.

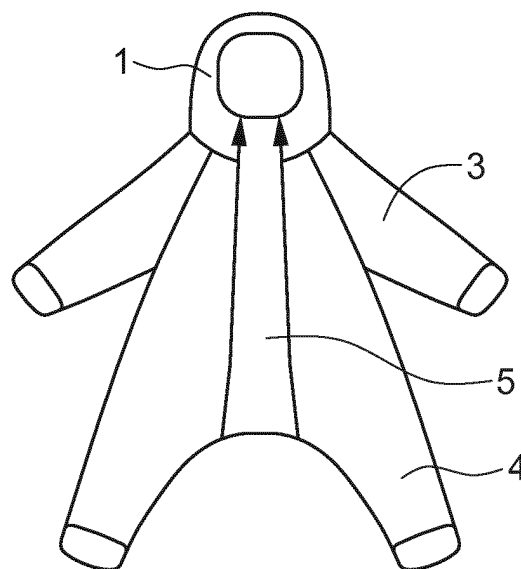


FIG. 1

Description

Technology Field

[0001] This invention relates to children's clothing, and specifically to jumpsuits.

Previous Technology Level

[0002] Today's jumpsuits for children up to 1 year old have a substantial drawback - the need to take the jumpsuit off in order to change diapers. A simplest baby jumpsuit, for example, <http://www.children-wear.ru/catalog/products/kids0-18/kombinezony>, <http://www.raitopt.ru/catalog/My0xOA>, has sleeves, legs, snap fasteners, zip fasteners or buttons on the front from the neck to the lower part, which can extend to the heels on one or both legs.

[0003] A jumpsuit is known from the existing technology level that includes a one-piece back and front, which form a neck with a collar in the top part and legs in the bottom part, as well as sleeves; this jumpsuit is characterized in that the front is designed with a zip fastener or snap fasteners located in the middle of the front part or shifted to the right or left from the middle of the front part (see Patent RU No. 127765). In that jumpsuit, a fastener shifted to the right or to the left from the middle of the front part can go from the neck into one leg, while a fastener located in the middle of the front part can go from the neck to the groin. The front part of such jumpsuit can be designed with a cut-off yoke. The sleeves of such jumpsuit can be designed as set-in, raglan, or cuffed. A snap fastener can be designed between the legs of such jumpsuit.

[0004] A jumpsuit is known that includes a one-piece back and front, which form a neck with a collar in the top part and legs in the bottom part, as well as sleeves; this jumpsuit is characterized in that it has a pass-through fastener for convenience of changing the child's clothes, while the bottom part has a fastener between the legs for changing diapers; see Patent RU No. 14484. The difficulty in the diaper changing process consists in the need to take the child's legs out of the jumpsuit legs, which is very time-consuming and requires much effort due to the child's resistance to the dressing/undressing process.

[0005] A jumpsuit is known as per Patent CH No. 682206, designed with vertical division into right and left flaps extending from the neck over the chest to the crotch, with fasteners on the sides in the chest area, which ensure the overlapping of one flap on the other. This jumpsuit design simplifies and accelerates the putting on and the taking off of the jumpsuit. A deficiency of this jumpsuit is that when the flaps are open, it is not possible to change the diaper without taking the jumpsuit off completely.

[0006] A jumpsuit is known as per Patent FR No. 2788944, designed with a possibility to open a small vertical strip of the jumpsuit, which goes over the crotch along the legs in the front and in the back, in order to

change the diaper without taking all the clothes off, using two fasteners which attach the strip to the rest of the jumpsuit. A deficiency of this jumpsuit is that when the vertical strip is open, it is easy to remove the diaper but difficult to put on a new diaper without taking the jumpsuit off completely, because the side parts of the jumpsuit remain closed and it is necessary to introduce not only the hands but also the diaper's fasteners. If the jumpsuit tightly adheres to the child's body, it is practically impossible to put a diaper on. In addition, the process of undoing the fasteners along the jumpsuit's legs is very complex and lengthy, which, considering the time consumption, makes it pointless to change the diaper without taking the jumpsuit off completely.

[0007] A child jumpsuit is known as per Patent RU No. 2484744, divided into two vertical parts of cloth in the crotch area, which overlap each other and have fasteners in this area. The fastening of the vertical parts of the jumpsuit cloth is designed from the middle of the trunk on the front and on the back over the crotch; also, the groin area on the jumpsuit's legs is expanded using flaring or a pleat, and by deepening the sitting line to knee level. The pleat in such a jumpsuit can be designed up to the neck area. The fastening in the groin area can be designed in the form of pass-through fasteners. This jumpsuit is designed with a possibility to create a wrapover, which allows to open the jumpsuit material at least from the waist on the back to the navel on the front.

[0008] This technical solution was adopted by us as a prototype for the proposed child jumpsuit design.

[0009] The main deficiency of the known jumpsuits is the overlapping of two layers of material in the crotch area, an unnecessary expansion of the groin area and the deepening of the groin area to knee level. This results in consumption of extra material and complicates the use of the jumpsuit due to the need to arrange the overlapping layers of material and the need to hold the layers of material; also, undressing the lower body using fasteners proves to be insufficient for performing all required hygienic procedures.

[0010] The task to be solved by the proposed technical solution consists in creating a new simplified design of a child jumpsuit with lower material consumption, which would be more convenient to use when all required hygienic procedures need to be performed without taking the jumpsuit off.

Disclosure of the Invention

[0011] A child jumpsuit, including a top head portion with a hood and a body portion with sleeves and legs, is characterized in that the body portion includes a detachable flap located on both sides of the jumpsuit's body portion and containing a narrow part located on the front side of the body portion of the jumpsuit from the head portion to the bottom of the jumpsuit between the legs, and an expanding part, located on the back part of the body portion, which is designed with an expansion up to

the width of the middle of the jumpsuit's body portion.

[0012] Moreover, the proposed technical solution is characterized by a number of additional optional features, specifically:

- the flap can be connected to the body portion using snap fasteners;
- the flap can be connected to the body portion using zip fasteners.

[0013] The technical result, which is ensured by the proposed combination of essential features of the proposed technical solution, consists in that the detachable flap can be easily opened and closed over the bottom of the jumpsuit to the child's chest or neck; this provides more access to the child's lower back, which allows to perform any hygienic manipulations easily and quickly, without taking the jumpsuit off and without taking the child's legs out of the jumpsuit legs - for example, putting the child on a potty, going to the bathroom, changing diapers, daily hygiene procedures.

Best Option for the Use of the Invention

[0014] The essence of the invention is illustrated by the drawing, where Fig. 1 shows the front view of the proposed jumpsuit in closed position; Fig. 2 shows the rear view in closed position; Fig. 3 shows a rear view at the initial stage of opening the flap; Fig. 4 shows the detachable flap of the proposed jumpsuit.

[0015] The proposed jumpsuit includes a top head portion 1 with a hood, and a body portion 2 with sleeves 3 and legs 4. The body portion 2 includes a detachable flap 5, which is located on both sides of the body portion 2 and includes a narrow part located on the front of the jumpsuit's body portion 2 from the head portion 1 to the bottom of the jumpsuit between the legs, and an expanding part located on the back side of the body portion 2, which is designed with expansion up to the width of the middle of the jumpsuit's body portion.

[0016] The proposed jumpsuit is to be used as follows.

[0017] When putting the jumpsuit on the child, the narrow part of the flap 5 is unfastened, and the child's arms and legs are inserted in the sleeves 3 and legs 4. Then the flap 5 is fastened.

[0018] If it is needed to gain access to the child's lower body for hygienic procedures, the flap 5 is unfastened on the back of the body portion 2, uncovering the child's lower body as much as needed for the relevant hygienic procedure (removing the diaper, putting the child on the potty, washing up, etc.) without taking the jumpsuit off. The flap 5, depending on the need to perform a particular hygienic procedure, can be unfastened partially or completely. The design of the jumpsuit allows to begin unfastening the flap 5 on the front or back side of the body portion, depending on the child's gender. The use of the proposed jumpsuit keeps the child's chest and upper body covered, protecting the child from cold.

[0019] The proposed jumpsuit design allows to perform any hygienic procedures easily and quickly, without taking the child's legs out of the jumpsuit legs - for example, putting the child on a potty, going to the bathroom, changing diapers, daily hygiene procedures.

Claims

1. A child jumpsuit, including a top head portion with a hood and a body portion with sleeves and legs, **characterized in that** the body portion includes a detachable flap located on both sides of the body portion and including a narrow part located on the front side of the body portion of the jumpsuit from the head portion to the bottom of the jumpsuit between the legs, and an expanding part, located on the back part of the body portion, including an expansion up to the width of the middle of the body portion.
2. A jumpsuit according to claim 1, further **characterized in that** the flap is connected to the body portion using snap fasteners.
3. A jumpsuit as per Section 1, further **characterized in that** the flap is connected to the body portion using zip fasteners.

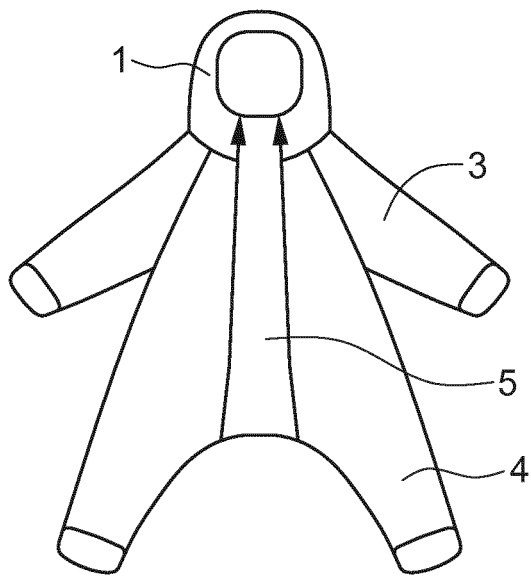


FIG. 1

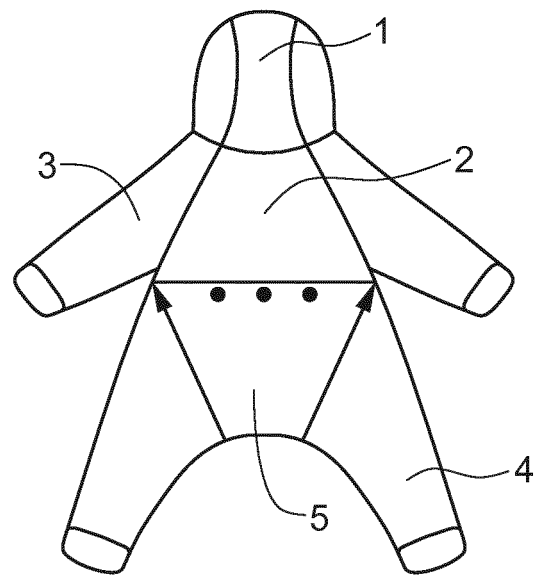


FIG. 2

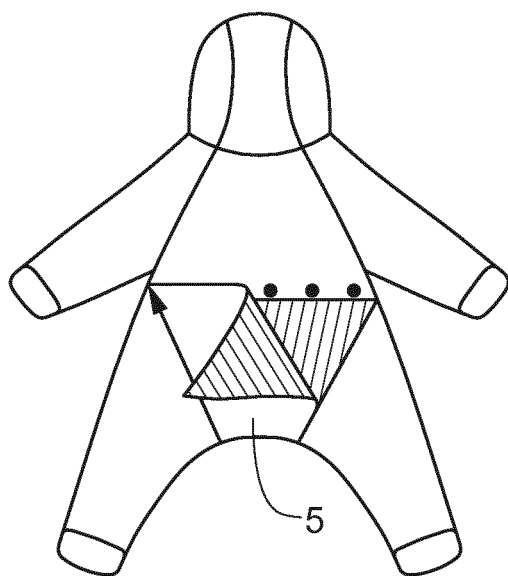


FIG. 1

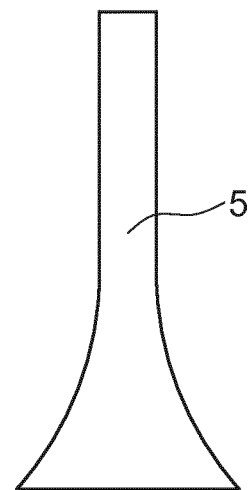


FIG. 4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/RU 2015/000562

5	A. CLASSIFICATION OF SUBJECT MATTER	
	A41D 11/00 (2006.01)	
	According to International Patent Classification (IPC) or to both national classification and IPC	
	B. FIELDS SEARCHED	
10	Minimum documentation searched (classification system followed by classification symbols)	
	A41D 1/00, 11/00, 13/00	
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
15	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)	
	Espacenet, JAP, USPTO, RUPTO	
20	C. DOCUMENTS CONSIDERED TO BE RELEVANT	
	Category*	Relevant to claim No.
	A	US 2738512 A (WINER SPORTSWEAR, INC.) 20.03.1956
25	A	ER 0853895 A1 (JUMBO TOKURA CO., LIMITED) 22.07.1998
	A	FR 2788944 A1 (MASSE CHRISTEL) 04.08.2000
30	A	RU 2484744 C1 (KRAVCHENKO-BEREZHNAIA ALEKSANDRA VASILEVNA) 20.06.2013
35		
40	☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.	
45	* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
50	Date of the actual completion of the international search	Date of mailing of the international search report
	19 November 2015 (19.11.2015)	18 February 2016 (18.02.2016)
55	Name and mailing address of the ISA/ RU	Authorized officer
	Facsimile No.	Telephone No.

Form PCT/ISA/210 (second sheet) (July 1998)

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- RU 127765 [0003]
- RU 14484 [0004]
- CH 682206 [0005]
- FR 2788944 [0006]
- RU 2484744 [0007]