



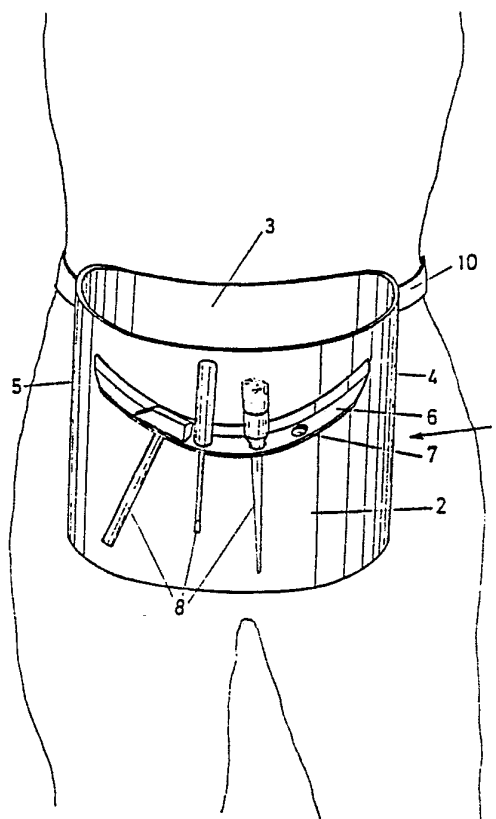
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/DK82/00056</p> <p>(22) International Filing Date: 22 June 1982 (22.06.82)</p> <p>(31) Priority Application Number: 2754/81</p> <p>(32) Priority Date: 23 June 1981 (23.06.81)</p> <p>(33) Priority Country: DK</p> <p>(71) Applicant (for all designated States except US): DHS HANDELS ApS [DK/DK]; Roskildevej 328, DK-2630 Tåstrup (DK).</p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only) : MYRUP, Erland [DK/DK]; Istedgade 30, DK-1650 København V (DK).</p> <p>(74) Agent: DANSK PATENT KONTOR ApS; H.C. Ørstedes Vej 70, DK-1879 København V (DK).</p> <p>(81) Designated States: AT (European patent), AU, BE (European patent), CH (European patent), DE (European patent), FI, FR (European patent), GB (European patent), JP, NL (European patent), NO, SE (European patent), US.</p>		<p>Published <i>With international search report.</i> <i>In English translation (filed in Danish).</i></p>

(54) Title: CONTAINER FOR HOLDING A SUPPLY OF A LIQUID MEDIUM, SUCH AS PAINT

(57) Abstract

A container for holding a supply of a liquid medium, such as paint, is provided with members (9) by means of which it may be releasably attached to a strap or the like for fastening around the waist of the operator. The container (1) has a mainly kidney-shaped cross-section inasmuch as it comprises two comparatively long lateral surfaces (2, 3) curving to the same side but with different radius of curvature, and two relatively short end surfaces (4, 5) formed like circular arcs serving to connect the two lateral surfaces (2, 3). By giving the container a kidney-shaped cross-section, it is possible to attach it to the lower part of the operator's stomach in front of same, whereby the centre of gravity of the container, including its contents, is placed as closely as possible to the user's body.



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CONTAINER FOR HOLDING A SUPPLY OF A LIQUID MEDIUM,
SUCH AS PAINT

TECHNICAL FIELD

This invention relates to a container for holding a supply
5 of a liquid medium, such as paint, said container com-
prising members by means of which it may be releasably at-
tached to a strap or the like for fastening around the
waist of the operator.

BACKGROUND ART

10 A container of this type is described in the Swedish patent
specification No. 411,870. The known container is an ordi-
nary cylindrical paint pot the top of which is provided
with bearing holes for receiving the free ends of a fork
which is secured to the user by means of a belt or strap
15 fastened around his waist. This known arrangement ensures
that the paint container maintains a substantially hori-
zontal position, irrespective of the movements of the
operator.

In practice, however, the arrangement known from the Swed-
20 ish patent specification No. 411,870 has proved to be im-
paired by a number of drawbacks. In the first place, if the
operator makes a sudden violent movement, this will cause
the paint to splash over the paint container, as every
movement is intensified by the relatively long fork arms.



In the second place, there is a great risk that during the operation the paint container which hangs at a considerable distance from the operator bumps into obstacles, such as the steps of a ladder.

- 5 Consequently, the suspension device known from the Swedish patent specification No. 411,870 is awkward and therefore, as far as we know, not widespread.

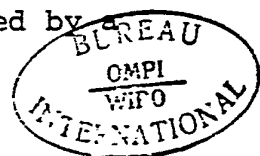
From the German patent specification No. 337,976 an arrangement is known which consists of a belt adapted to be fast-
10 ened around the waist of the user, and an additional strap adapted to be inserted through loops provided in the belt and to embrace cylindrical paint containers and, for instance, hand tools to be used in connection with the painting. The cylindrical paint containers and hand tools
15 are to be fastened between the belt and the strap.

An important drawback of this known arrangement is that no means are provided to ensure a reliable fastening of the paint containers and/or the hand tools, as these objects are held solely by means of the friction produced between
20 the belt and the strap. Thus, it will be understood that a paint container which may have a weight of several kilogrammes when filled is apt to disengage very easily. In addition, it is very unpleasant for the operator to carry such a belt, because the comparatively heavy paint con-
25 tainers, due to their cylindrical form, abut against the operator along a line.

DISCLOSURE OF INVENTION

The object of the invention is to provide a container for holding a liquid supply, such as paint, in such a manner
30 that the operator has the supply within easy reach all the time, without any risk of the contents splashing over, or being dropped together with the container.

According to the invention, this object is achieved by



container of the type mentioned in the introduction and characterized in that it has a mainly kidney-shaped cross-section inasmuch as it comprises two comparatively long lateral surfaces curving to the same side, but with different radius of curvature, and two relatively short end surfaces formed like circular arcs serving to connect the two lateral surfaces.

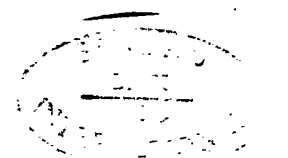
The advantage gained by this specific embodiment is that the container can be carried on the lower part of the operator's stomach in close abutment against his body, whereby the weight of the fluid or paint in the container will be equally spread over a large contact area between the inner side of the container and the user's stomach. At the same time, it is achieved that the centre of gravity of the container, including its contents, is placed as closely as possible to the body of the operator.

In a preferred embodiment of the container according to the invention, the members for releasable attachment to a strap are formed as loops or eyes placed on the lateral surface of the container facing the operator.

In this way, it is achieved that the container can be used in connection with any kind of straps or belts. The suspension from loops or eyes also ensures a reliable fastening and, further, it gives the possibility of exact adjustment to the figure of the user by displacing the container in the longitudinal direction of the strap.

According to the invention, the outside of the container can be provided with members for securing hand tools and the like in a releasable way.

The utility value of the container is thereby increased considerably as it is possible in connection with painting, for instance, to place brushes, scrapers, etc., in the above-mentioned members, thereby freeing the hands of the



user for other purposes, for instance, when climbing up or down a ladder.

In another preferred embodiment of the container according to the invention, the container is divided into several
5 sections which are separated from each other. This makes it possible to use one and the same container, for instance, for such painting that presupposes the use of several paints within a limited area.

BRIEF DESCRIPTION OF THE DRAWING

10 The invention is illustrated in more detail in the following by reference to the drawing, in which Fig. 1 shows a container according to the invention placed on the operator's stomach in front of same, and Fig. 2 is a top view of the container.

15 BEST MODE OF CARRYING OUT THE INVENTION

In Fig. 1, the container is placed on the user's stomach in front of same. The container 1 consists of an inwardly curved front lateral surface 2, and a likewise inwardly curved back lateral surface 3. The ends of the two lateral
20 surfaces 2 and 3 are connected by end surfaces 4 and 5 which are substantially formed like circular arcs. Thus, the container 1 has a mainly kidney-shaped cross-section.

As shown in Fig. 1, the front side of the container is equipped with a flap 6 which is provided with holes or
25 openings 7 for receiving the handles of hand tools 8 in order to secure these objects in a releasable way.

Fig. 2 is a top view of the container 1 from which it appears that the internal lateral surface 3 has a longitudinally decreasing curvature, which further increases the
30 close abutment between the container and the user's body. The internal lateral surface 3 is provided with channels 9 to be pierced by a belt or strap 10.



The container shown in the drawing is preferably formed of a single piece and made of plastic, for instance, by means of die casting.

In the drawing, the container is illustrated without internal partitions, but, according to the invention, a suitable number of partitions may be used to divide the container into several compartments for the purpose of holding paints of various colours.

It should be noted that a container according to the invention also permits one or more ordinary cylindrical paint containers to be placed side by side in the container.



CLAIMS

1. Container for holding a supply of a liquid medium, such as paint, said container comprising members (9) by means of which it may be releasably attached to a strap or
5 the like for fastening around the waist of the operator, characterized in that it has a mainly kidney-shaped cross-section inasmuch as it comprises two comparatively long lateral surfaces (2,3) curving to the same side but with different radius of curvature, and two relatively
10 short end surfaces (4,5) formed like circular arcs serving to connect the two lateral surfaces.
2. Container according to claim 1, characterized in that the members for releasable attachment to a strap are formed as loops or eyes (9) placed on the lateral
15 surface of said container facing the operator.
3. Container according to claim 1, characterized in that the outside of said container is provided with members (6) to secure hand tools (8) or the like in a releasable way.
- 20 4. Container according to any one of the foregoing claims, characterized in that the container is divided into several compartments which are separated from each other.



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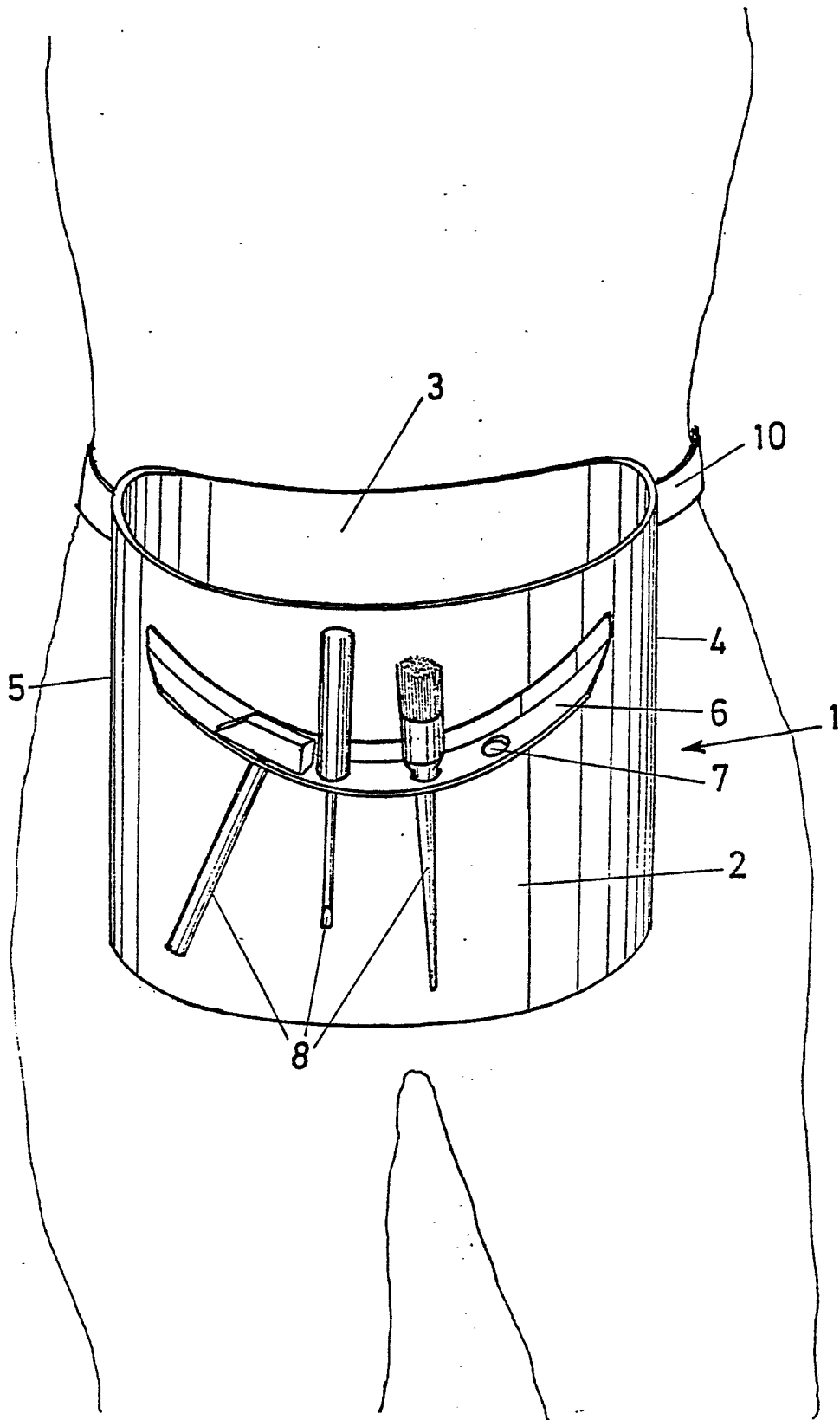
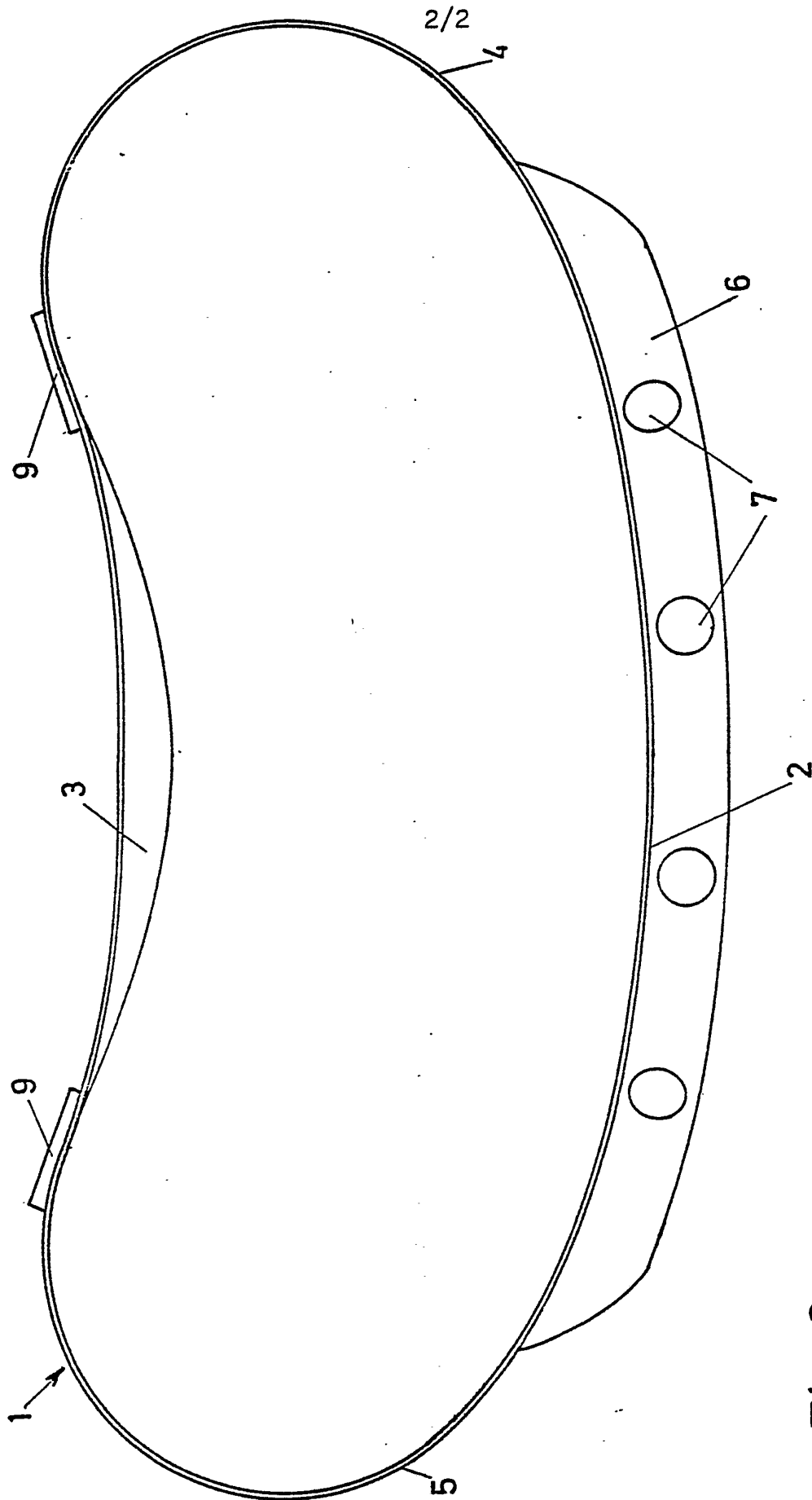


Fig. 1





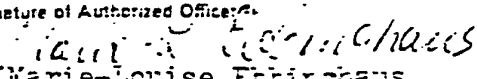
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Fig. 2



INTERNATIONAL SEARCH REPORT

International Application No **PCT/DK82/00056**

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ¹				
According to International Patent Classification (IPC) or to both National Classification and IPC 3				
B 44 D 3/14				
II. FIELDS SEARCHED				
Minimum Documentation Searched ⁴				
Classification System	Classification Symbols			
IPC 3	B 44 D 3/12, 3/14			
National Cl	75c:15/01,02,03	.../...		
Documentation Searched other than Minimum Documentation to the extent that such Documents are included in the Fields Searched ⁵				
SE, NO, DK, FI classes as above				
III. DOCUMENTS CONSIDERED TO BE RELEVANT ¹⁴				
Category ⁶	Citation of Document, ¹⁶ with indication, where appropriate, of the relevant passages ¹⁷	Relevant to Claim No. ¹⁸		
Y	FR, A, 2 363 451 (ROUL VIVENSANG) 31 March 1978	1, 2, 4		
X	US, A, 757 645 (RICHARD BASSETT) 19 April 1904	1, 2		
X	US, A, 1 470 554 (CONRAD P STENSGAARD AND ROBERT P STENSGAARD) 9 October 1923	1, 2		
Y	US, A, 2 095 351 (WILLIAM R VAN WINKLE) 12 October 1937	1, 2		
X	US, A, 2 281 142 (STEWART-WARNER CORPORATION) 28 April 1942	1, 2		
X	US, A, 2 674 757 (CHARLES W KEYES JR.) 13 April 1954	1, 2		
Y	US, A, 4 172 542 (WILLIAM O LANKFORD) 30 October 1979	1, 2, 4		
.../...				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> ¹⁴ Special categories of cited documents: ¹⁵ "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document 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 </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> "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 "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 "Z" document member of the same patent family </td> </tr> </table>			¹⁴ Special categories of cited documents: ¹⁵ "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document 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 "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 "Z" document member of the same patent family
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IV. CERTIFICATION				
Date of the Actual Completion of the International Search ²	Date of Mailing of this International Search Report ³			
1982-06-30	1982-09-02			
International Searching Authority ¹	Signature of Authorized Officer ⁷			
Swedish Patent Office	 Marie-Louise Erbinhaus			

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FURTHER INFORMATION CONTINUED FROM THE SECOND SHEET

II Fields Searched (cont)

US C1 24:3;
 206:1.7, 1.8, 1.9;
 224:148, 226, 268, 904;
 224:5, 26, 27;
 150:0.5

V. OBSERVATIONS WHERE CERTAIN CLAIMS WERE FOUND UNSEARCHABLE ¹⁰

This international search report has not been established in respect of certain claims under Article 17(2) (e) for the following reasons:

1. Claim numbers ... because they relate to subject matter ¹² not required to be searched by this Authority, namely:

2. Claim numbers ... because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out ¹³, specifically:

VI. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING ¹¹

This International Searching Authority found multiple inventions in this international application as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims of the international application.
2. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims of the international application for which fees were paid, specifically claims:
3. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim numbers:
4. As all searchable claims could be searched without effort justifying an additional fee, the International Searching Authority did not require payment of any additional fee.

Remarks on Protest

- The additional search fees were accompanied by applicant's protest.
- No protest accompanied the payment of additional search fees.

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III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category *	Citation of Document, ¹⁶ with indication, where appropriate, of the relevant passages ¹⁷	Relevant to Claim No ¹⁸
Y	DE, A, 516 354 (JOH. LÜBBEN) 22 January 1931	1, 2
Y	DE, A, 186 106 (WILLY KAHLMANN) 4 June 1907	1-4
Y	SE, B, 411 870 (J W JOHANSSON) 11 February 1980	1, 2, 4