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(54) **REVERSE TOILET COMMODE**

(57) Reverse commode which provides needful support, features and attachments for the user, wherein the user may be a person of any age group or any person such as a geriatric suffering from Amnesia, working men, working and non-working women and students requiring revision prior to examination and others needing effective

use of toilet time for multi-tasking. The said commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), a screen stand (6), a flushing device (7), a reverse drainage plumbing system (8) and a reverse drainage hole (9).

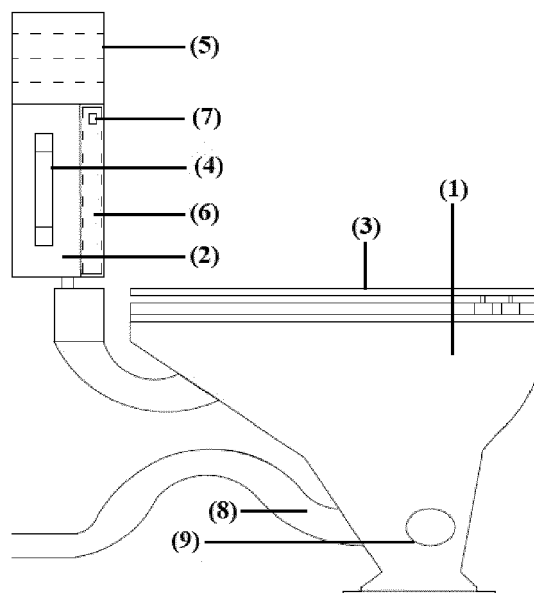


Fig. 4

Description

[0001] The present invention relates to a reverse commode which provides needful support, features and attachments for the user, wherein the user may be a person of any age group or any person such as a geriatric suffering from Amnesia, working men, working and non-working women and students requiring revision prior to examination and others needing effective use of toilet time for multi-tasking.

BACKGROUND

[0002] Ever since earliest mode of commode has been invented, whether it is a squat commode as originated in Italy and presently widely used in rural India or a commode which is called "western style commode" in India, all commodes have been designed to face blank open space inside the toilet with the flush tank on the backside and the drainage plumbing directed towards the backside wall.

[0003] Over the years, while there has been sophistication in design of the commode and improvements and modifications to provide better seating /sitting comfort to the user, the direction of the commode inside the toilet has always been facing the open space and the wall with the flush tank on the back of the user. As on date, sensor based and digitally timed and temperature-controlled commode seats and sensor based flushing arrangements are available, though these are in limited use, of high cost and hence less affordable, to the public at large.

[0004] Over the years, the lifestyle and the demand for effective use of time in urban population and need for improved hygiene through flushing of the toilet even by aged users with memory loss has become a priority, where electronic/digital/ sensor based automatic flushing is not available/ affordable. For urban working class and high demand show-business personalities in the visual media, time spent on the commode is also better utilized if the commode is designed differently.

[0005] The present invention is directed towards meeting these needs and also for providing parallel use of time productively and effectively, both for regular commodes as well as squat commodes.

[0006] Over the years, there have been isolated attempts to modify commodes. Enhanced function for handicapped users has been dealt with in US6324705, US5996133, US5329645 and US4777671 patents. Patents US6814719, US4937890, US4815151, US4681573, US4023216, US3964111 had been designed for the benefit of female urinary system, including the granted patent US7458110.

[0007] "Elder Care in Occupational Therapy"- book by Sandra Cutler Lewis, page no. 260 has recommended use of support for elderly on toilet commodes which may be fitted with armrests or elevator to help elderly persons and patients, to support and help during the use of the commode.

[0008] However, there have been no innovation in the design of the toilet commodes or improvements for providing consumer benefits in terms of utilization of time, comfort and utility.

SUMMARY OF INVENTION

[0009] The present invention discloses a reverse (toilet) commode with added benefits for multi-tasking.

[0010] Accordingly, the present invention discloses a reverse (toilet) commode with added benefits for multi-tasking that provides breakthrough benefits to a person of any age group or any person such as a geriatric patient suffering from Amnesia, working men, working and non-working women as well as students during examination through effective use of time spent on a toilet commode voluntarily or due to medical reasons. While the present toilet commodes are facing open space with the flush tank which is located to the back of the commode, elderly patients with Amnesia and a large segment of population with short memory or memory loss, walk away without pulling the flush since the flush is located at the back of the user.

[0011] In the current times, with increasing demand on time, busy men and women executives, students and working women, models and actors in visual media need to do multi-task while in the toilet. For urban working class and high demand show-business personalities in the visual media, time spent on the commode is also better utilized if the commode is designed differently. A reverse commode facing the flush-tank and the wall fitted with the amenities that an individual user may require to use parallelly, will help the user of all ages effectively and beneficially to use the time spent on a commode seat.

[0012] The present inventor has designed a commode facing the flush tank and the utilities located on top of the flush-tank/ on the wall including handles and fixtures for elderly to support and exert pressure, or other need-based utilities.

BRIEF DESCRIPTION OF DRAWINGS

[0013]

Fig 1 illustrates side view of a reverse squat commode, wherein the attachment and service user facilities can be attached to the wall facing the reverse squat toilet

Fig 2 illustrates front view of reverse squat commode

Fig 3 illustrates top view of reverse squat commode

Fig 4 illustrates side view of reverse western commode (called a western style commode in India)

Fig 5 illustrates front view of reverse western commode

Fig 6 illustrates top view of reverse western commode

[0014] Description of reference numerals in the figures displayed are as follows:

Reference Numeral	Part description
1	Reverse commode pan/ bowl
2	Commode flush tank
3	Reverse commode seat cover
4	Handles and fixtures for support and to exert pressure, or for other need-based utilities, including hangers
5	Utility rack
6	LCD screen stand
7	Commode flush tank lever for flushing
8	Reverse connection of the drainage plumbing system attached to the reverse draining system
9	Reverse drainage hole

DETAILED DESCRIPTION OF INVENTION

[0015] The present invention discloses a reverse toilet commode with added benefits for multi-tasking.

[0016] Accordingly, the present invention discloses a reverse toilet commode with added benefits for multi-tasking that provides breakthrough benefits to a person of any age group or any person such as a geriatric patient suffering from Amnesia, working men, working and non-working women as well as students during examination through effective use of time spent on a toilet commode voluntarily or due to medical reasons.

[0017] While the present toilet commodes are facing open space with the flush tank in the back, elderly patients with Amnesia and a large segment of population with short memory or memory loss walk away without pulling the flush since the flush is in a way back of the user.

[0018] In the current times with increasing demand of time, busy men and women executives, students and working women, models and actors in visual media need to do multi-task while in the bathroom and toilet. A reverse commode facing the flush-tank and the wall fitted with the amenities that an individual user may require and will help the user of all ages effectively and beneficially to use the time spent on a commode seat.

[0019] According to an aspect of the invention, there is provided a reverse toilet commode useful for multi-tasking and effectively utilizing the time spent on the toilet commode, for any person, wherein the commode is reverse facing a wall or similar, the commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), a screen stand (6), a flushing device (7), a reverse drainage plumbing system (8) and a reverse drainage hole (9).

[0020] According to another aspect of the invention, there is provided a reverse toilet commode useful for multi-tasking and effectively utilizing the time spent on the toilet commode, for any person, wherein the commode is reverse facing a wall or similar, the commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), an LCD screen stand (6), a flushing lever (7), a reverse drainage plumbing system (8) and a reverse drainage hole (9).

[0021] According to another aspect of the invention, there is provided a reverse toilet commode useful for multi-tasking

with added benefits and effectively utilizing the time spent on the toilet commode, for any person such as working men, working and non-working women, students as well as geriatric patient suffering from Amnesia, wherein the commode is reverse facing the wall or similar, the said commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), an LCD screen stand (6), a flushing lever (7), and an innovatively designed reverse drainage plumbing system (8) and a reverse drainage hole (9).

[0022] The following features apply, where appropriate, to all aspects of the invention.

[0023] The screen stand (6) may be for an electronic screen, optionally an LCD, LED or OLED screen.

[0024] The screen stand (6) may be an LCD screen stand.

[0025] The flushing device (7) may comprise a lever, a handle, a chain or a button.

[0026] The flushing device (7) may be a flushing lever.

[0027] The flush tank (2) may be built-in on the wall or may be affixed on the wall.

[0028] In an embodiment, the flush-tank (2) of the reverse commode may be built-in on the wall wherein, the additional space available in case of built-in flush-tank can be utilized for extra/added utilities thereof.

[0029] It may be noted that the commode type of the present invention may be a squat commode (Italian commode) as in Fig. 1 to 3, or a regular (western) commode as in Fig. 4 to 5.

[0030] It may be further noted that the reverse drainage plumbing system (8) is innovatively designed in a way that the drainage hole (9) is hidden from the user's sight.

[0031] The reverse toilet commode may have a reverse drainage plumbing system (8) that is configured such that the reverse drainage hole (9) is hidden from a user's sight upon accessing the commode.

[0032] The reverse toilet commode may comprise a visual reminder to flush on the flush tank (2).

[0033] The reverse toilet commode may comprise a prominent sign "FLUSH" affixed on the flush tank (2) as a visual reminder for Amnesia patients and persons with short memory.

[0034] In both forms of reverse commode, a prominent sign "FLUSH" may be affixed to remind the Amnesia patients and persons with short memory as a visual reminder before exiting, aiding better sanitation.

[0035] The plurality of handles and fixtures for support (4) may act as a support system and for exerting pressure for any person including elderly persons/geriatric patients.

[0036] In an optional embodiment, the utilities and fixtures of the reverse commode may include handles and fixtures for elderly person to support and exert pressure.

[0037] In a squat style reverse commode or a western style reverse commode, where the wall is blank because the flush is concealed or on top of the loft, the user has a much larger wall for affixing like amenities and utilities of the user's choice.

[0038] The utility rack (5) may comprise utilities selected from needful accessories such as a mobile stand, a laptop stand, a TV monitor, a newspaper holding clip/support, a bookstand, a mirror with cosmetic kit for women, any other utilities for effective time management, during toilet activities.

[0039] In other embodiments, the utilities and fixtures on the wall or on top of the flush may be selected from needful accessories such as a mobile stand, a laptop stand, a TV monitor, a newspaper holding clip or support, a bookstand, a mirror with cosmetic kit for women, or any other utility which may enable the user to effectively engage while using the commode.

[0040] In another embodiment, the fitting can be made non-obstructing by providing a distance from the flush tank (2) with only the reverse drainage (8) pipe in the middle and the distance from the flush tank (2) to commode extending to provide a convenient sitting posture, without stress on the angle of spread, on the legs.

[0041] The figures, descriptions and the embodiments described herein are only for demonstration. It is to be understood that the above description is intended to be illustrative and not restrictive. Many embodiments will be apparent to a person skilled in the art upon reviewing the description. The scope of the invention should therefore, be determined not with reference to the above description, but instead should be determined with reference to the claims, along with the full scope of equivalents to which such claims are entitled.

Claims

1. A reverse toilet commode useful for multi-tasking and effectively utilizing the time spent on the toilet commode, for any person, wherein the commode is reverse facing a wall or similar, the commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), a screen stand (6), a flushing device (7), a reverse drainage plumbing system (8) and a reverse drainage hole (9).

2. The reverse toilet commode according to claim 1, wherein the screen stand (6) is for an electronic screen, optionally an LCD, LED or OLED screen.

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3. The reverse toilet commode according to claim 1 or claim 2, wherein the screen stand (6) is an LCD screen stand.
4. The reverse toilet commode according to any one of claims 1 to 3, wherein the flushing device (7) comprises a lever, a handle, a chain or a button.
5. The reverse toilet commode according to any one of claims 1 to 4, wherein the flushing device (7) is a flushing lever.
6. The reverse toilet commode according to any one of claims 1 to 5, wherein the flush tank (2) is built-in on the wall or is affixed on the wall.
7. The reverse toilet commode according to any one of claims 1 to 6, wherein the plurality of handles and fixtures for support (4) act as a support system and for exerting pressure for any person including elderly persons/geriatric patients.
8. The reverse toilet commode according to any one of claims 1 to 7, wherein the utility rack (5) comprises utilities selected from needful accessories such as a mobile stand, a laptop stand, a TV monitor, a newspaper holding clip/support, a bookstand, a mirror with cosmetic kit for women, any other utilities for effective time management, during toilet activities.
9. The reverse toilet commode according to any one of claims 1 to 8, wherein the reverse drainage plumbing system (8) is configured such that the reverse drainage hole (9) is hidden from a user's sight upon accessing the commode.
10. The reverse toilet commode according to any one of claims 1 to 9, wherein the commode is a reverse squat commode or a reverse western commode.
11. The reverse toilet commode according to any one of claims 1 to 10, wherein the commode comprises a visual reminder to flush on the flush tank (2).
12. The reverse toilet commode according to any one of claims 1 to 11, wherein a prominent sign "FLUSH" is affixed on the flush tank (2) as a visual reminder for Amnesia patients and persons with short memory.
13. A reverse toilet commode useful for multi-tasking and effectively utilizing the time spent on the toilet commode, for any person, wherein the commode is reverse facing a wall or similar, the commode comprising a toilet pan/bowl (1), a flush tank (2), a seat cover (3), a plurality of handles and fixtures for support (4), a utility rack (5), an LCD screen stand (6), a flushing lever (7), a reverse drainage plumbing system (8) and a reverse drainage hole (9).

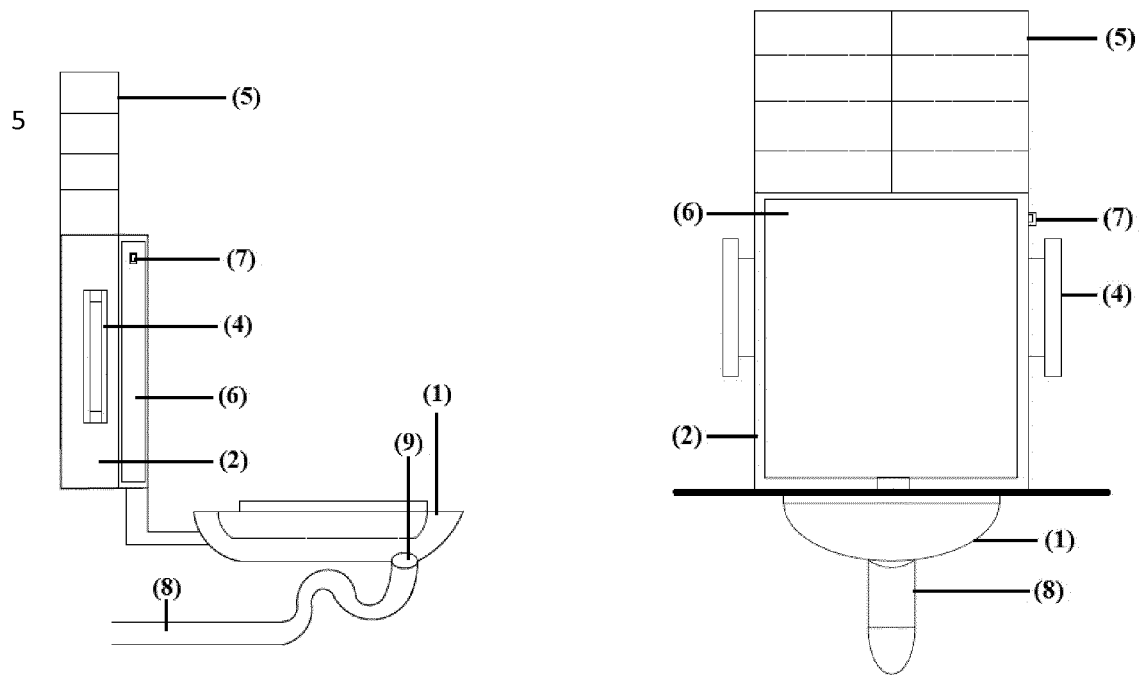


Fig. 1

Fig. 2

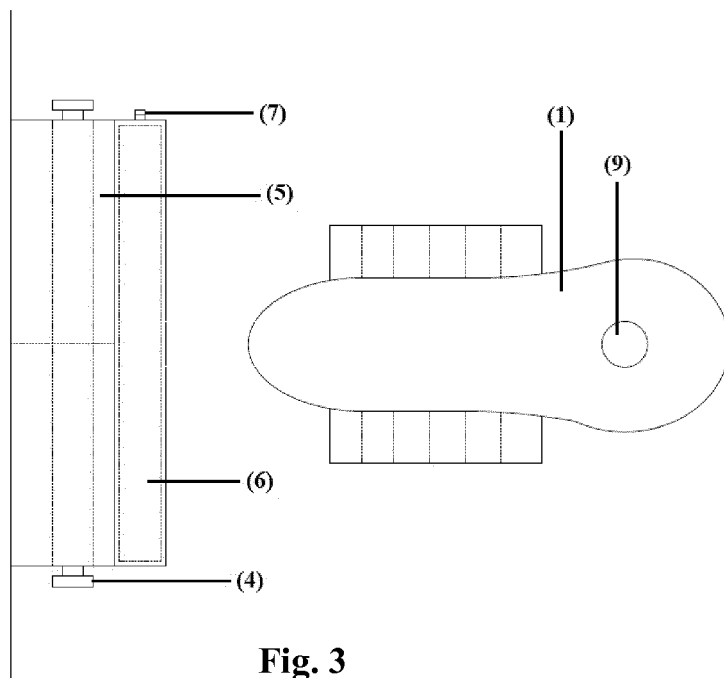


Fig. 3

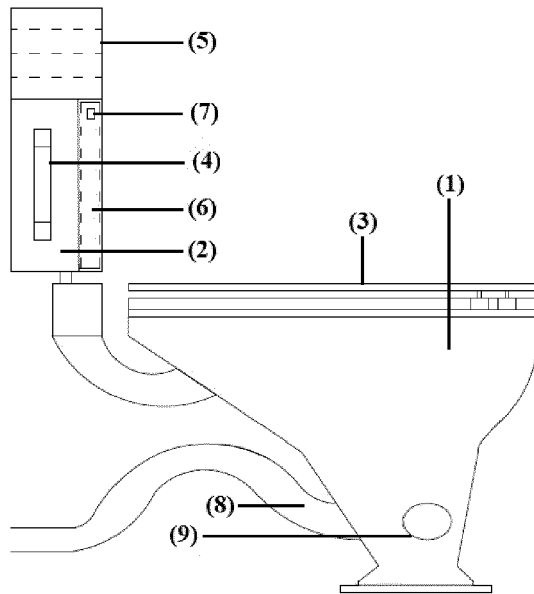


Fig. 4

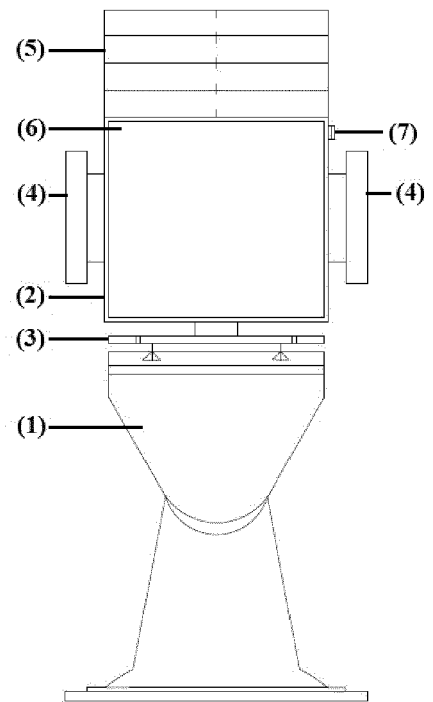


Fig. 5

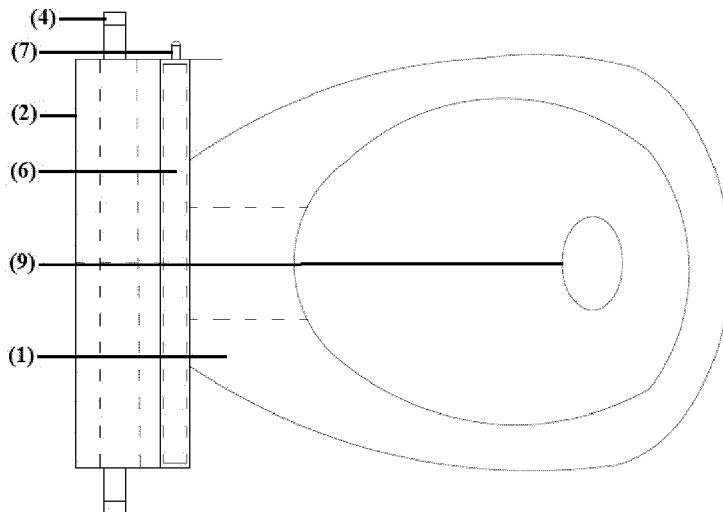


Fig. 6



PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 19 19 9980

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2008/102931 A1 (KIM CHANG-DUK [KR]; HONG YOUNG-KI [KR]) 28 August 2008 (2008-08-28) * figures 1-6 * * the whole document *	1,6-12	INV. E03D1/012 E03D5/092 E03D5/094 E03D11/04 E03D11/12
X	US 9 398 835 B2 (MCCARTHY JOHN VINCENT [US]; STORY ROBERT [US]) 26 July 2016 (2016-07-26) * figures 1,2 * * column 2, line 27 - line 38 * * column 4, line 16 - line 21 * * column 4, line 34 - column 5, line 39 * * the whole document *	1-6,8-12	A47K17/00 A47K17/02
X	US 10 049 597 B2 (MCCARTHY JOHN VINCENT [US]; STORY ROBERT [US]) 14 August 2018 (2018-08-14) * figures 1-9 * * the whole document *	1-6,8-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			E03D A61G A47K
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
Munich		12 May 2020	Klein, A
CATEGORY OF CITED DOCUMENTS			
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		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	

EPO FORM 1503 03.82 (P04E07)

**INCOMPLETE SEARCH
SHEET C**

Application Number

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Claim(s) completely searchable:
1-12

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Claim(s) not searched:
13

Reason for the limitation of the search:

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On 09-03-2020, pursuant to Rule 62a(1) EPC, the applicant was invited to indicate the claims complying with the Rule 43(2) EPC on the basis of which the search was to be carried out.

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On 17-03-2020, the applicant replied that he "hereby elects claims 1-12 to be searched", which is understood as an appropriate answer to the invitation pursuant to Rule 62a(1) EPC.

The search is therefore done on independent claim 1 and its dependent claims 2-12.

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

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5 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
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12-05-2020

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EPO FORM P0459

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

REFERENCES CITED IN THE DESCRIPTION

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