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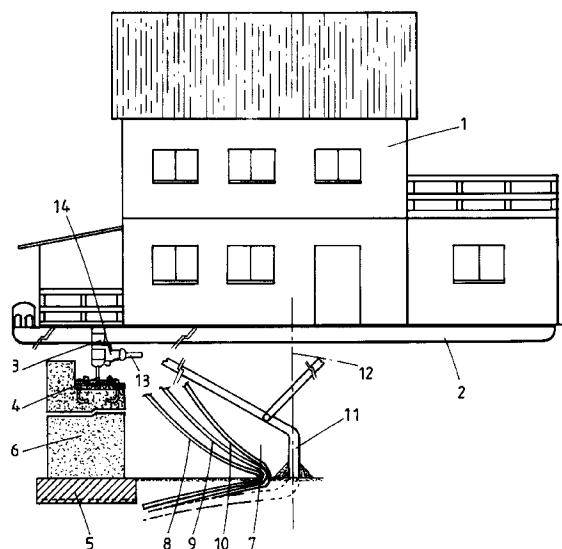
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(54) **Rotatably revolving platform for buildings.**

(57) Rotatably revolving platform for buildings, having a beam framed fitted steel body (2) suitable for receiving the building (1) thereto, and being provided with at least one shoulder (3) capable of cooperating with a circular rail (4) which in turn is supported on a basic foundation (5, 6) and also conventional mechanical means assuring the building's (1) rotation on itself up to any revolving sense as required by the user in a permanent or continuous way and by automatic (13) or manual controlling means.



**Fig.1**

The present invention refers to a rotatably revolving platform for buildings.

More particularly the invention concerns an arrangement, the nature and operation of which allows that any building, either of one or several floors, independently of the building's weight and designed use, can be revolved by rotating on itself, either in an automatic or manual way at the option of the user.

It is already known that the present buildings are either statically standing up at their locating place or at least moved from their location, their construction being rolling on wheels or simply using other vehicles.

The rotatably revolving platform for buildings, being the object of the present invention, has been provided so that any type of building can optionally be revolved independently of this nature and locating place. This platform by a simply swinging rotation managed by the own user or by permanent or continuous programming can be revolved towards the Sun, any shade, windstreamed, projected towards a predetermined landscape or continuously revolving towards the Sun, among other things, due to the action of an electrically driven motion or by any other type of energy required to be used.

Said rotating motion, embracing any required angle up to completing 360 degrees is achieved by means of the arrangement of a beam framed fitted steel body on which the building is located and provided with at least one shoulder, particularly of steel, cooperating, for example rolling, over a circular rail which in turn, is supported over a foundation, for example a basic cement of a reinforced concrete circular wall which optionally creates a basement for the building, capable of housing all the facilities, and service supplies such as water, electrical power, telephone, natural or propane gas, if any, and whatever might be required in addition to the sewage dumping system network which is necessarily located at the circle symmetrical axis so that the sewage dumping system is not disturbed when rotating is performed.

Effectively said arrangement of the sewage towards the central point and the sliding of the building's sewage piping over the pipe of the general network, statically standing up however on the ground, is what renders possible that such rotation is performed without any problems nor any special attendance required and in the same way service facilities like water, electrical supply, etc. which can be moved through the basement area can be provided as required by the building's rotating motion.

When sewage is dumped that does not prevent all ancillary piping of the several drains can previously be converging to each other before being channelled towards the circle geometrical center.

There is also the possibility of setting up a sliding circular network if for any particular reason the center could not be reached and a sidewall had to be used thereto.

For the rotating displacement over itself, one or several motors had been provided, in addition of the tractive or manual operation, whichever the case may be, these motors by means of an oil-bathed pinion fitted reducing box take one or several rolling shoulders, moving the building with smooth startings and stoppings, and even locking themselves with a brake at the time of stopping.

Optional to the user, these motors could be driven instead of on the rolling shoulders, against a toothed crown placed underneath the body or on a smooth track over which the motor pulley could be operated by friction thereon, any system or others similar are now immaterial for achieving the purpose of rotating the building.

All installations are registrable, in the circular basement created which is easily accessed with a trap at the ground of the building's first floor with a service staircase to facilitate going down or else by means of a side door in the wall thereof, if required, in the use of said basement for other facilities.

There are some anchoring clamps at some of the rolling shoulders to the rail to get the building locked at some definite position for a time and an anchoring system with body tensioners to the concrete wall is also provided to ensure building stability in case of strong winds greater than those deemed as average.

Determinations of the rolling track and circle, concrete foundation, walls, body and rotating traverse motors are logically proportional to the furnished building's weight and balance with counterweights or ballast. all that being the object of carefully studies and installation projects, each time prior to any case, basically taking into a account the subsoil analysis as related to the strains supported thereon.

On the selection of any required components or mechanisms, in the market there are available several of them, i.e. railroad type rails or similar, flanges, links and anchorings of several kinds, steel beamed bodies of several profiles and strengths, power traversing motors, and gear reducing boxes and bearings with several demultipliers, electrical energy generators, and switchboards equipped with transformers, contactors, timing relays, and any required mechanisms to cover all safety provisions with the rotating motion, rolling shoulders of several track diameters and widths prepared for driving pinions and if needed, when opting for another driving solution, some flat circular tracks or smooth or gear sidewalls actuating by friction.

About the required materials for installation of water, energy, telephone facilities etc. and sewage, only are necessary those already existing in the market since the protection measures or operating systems are not relevant now.

The basement shall be provided with a drain or else the ground also provided with a drainage sufficiently for each presumed flooding caused by rain tor-

rential waters.

No provision for fire-fighting is made since the facilities installed in the building for this purpose could be used if needed.

Definitely the rotatably revolving platform for buildings with its procedure and system is very widely thought over and reviewed for the rotation of any kind of buildings located over a body, independently of its use, configuration, height or construction system, which might be industrialised or conventional with relieved materials to achieve a better weight reduction which undoubtedly will render savings obtainable in the manufacturing of a rotating system.

To facilitate the explanation, the present description is accompanied by some drawing sheets wherein is shown a preferred embodiment cited only by way of example.

In the drawings :

Figure 1 is showing a side elevation view of the assembly,

Figure 2 is showing a plan view of the assembly on concrete.

Looking now to the figures, it is noted therein the embodiment of a building -1- which in the case described is showing a two-storey dwelling, and with the purpose to facilitate the rotation on itself towards any required revolving sense, it is located over a beam framed fitted steel body -2- provided with several shoulders -3- also of steel, rolling over a circular rail -4- supported on a basic cement -5- of a reinforced concrete circular wall -6- creating a basement -7- for the building -1- capable of housing the service installations -8-, -9- and -10- and the sewage dumping network -11- located at the circle symmetrical axis -12-.

For the rotating displacement which is moving the building -1- in the figure 1 is shown a possible embodiment wherein is illustrated the installation of a motor -13- driving one of the shoulders -3- and moving the building -1- with smooth startings and stoppings and which motor is locked with a brake -14- at the time of stopping.

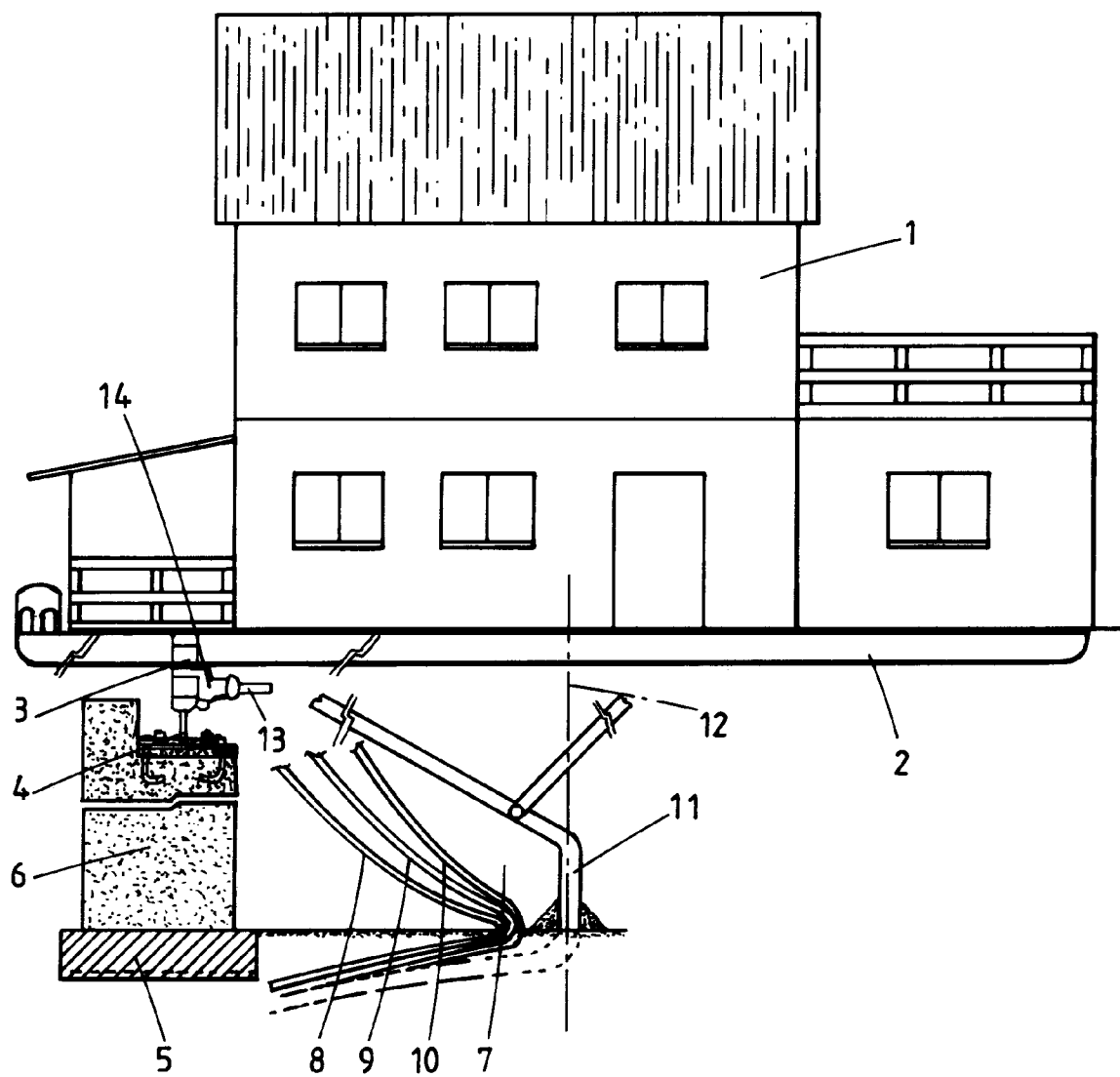
previous claim, characterized in that said foundation comprises a circular wall (6) creating a basement (7) for the building which is capable of housing the installations of any service facilities (8-10) and also the sewage dumping network (11) located at the circle symmetrical axis, the sewage piping of the building sliding on the piping of the general network, statically standing up at the ground consistently with the displacement of the previously said supply facilities installations and in that the system allowed the setting up of a sliding circular network should the sewage not be discharged at the central area.

3. Rotatably revolving platform according to claim 1 or 2, characterized in that the rotating displacement can further be facilitated by manual or tractive means with the operation of one or several motors, which are driving one or several rolling shoulders and moving the building with smooth startings and stoppings and are locked with a brake (14) at the time of stopping.
4. Rotatably revolving platform according to anyone of claims 1 to 3, characterized in that some anchoring clamps have been provided at some of the shoulders (3) on the rail, the building being temporarily locked at a definite position and an anchoring system such as body tensioners to the concrete wall or any other one assuring the building locking thereto being also provided.

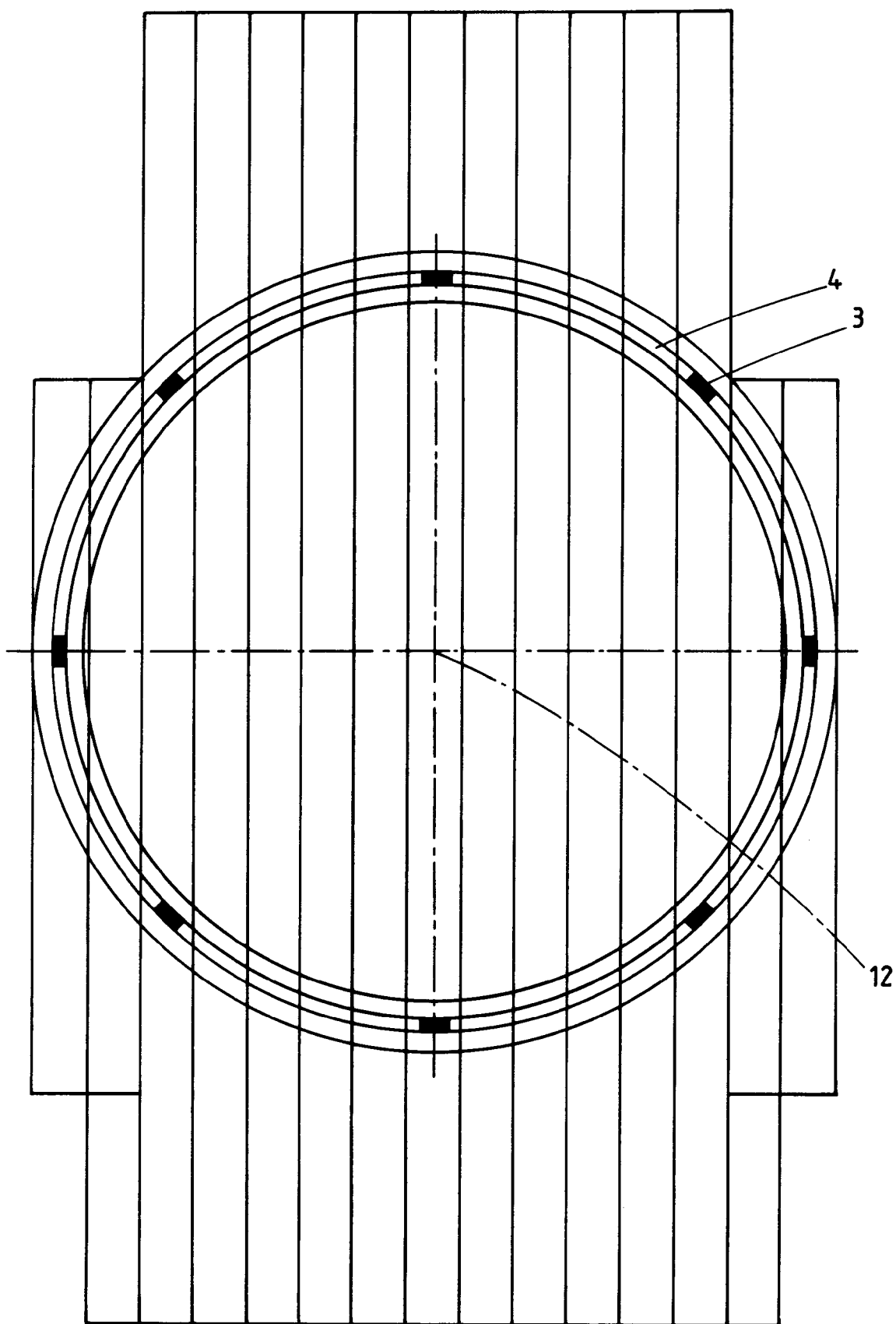
## Claims

1. Rotatably revolving platform for buildings, having a beam framed fitted steel body (2) suitable for receiving the building thereto, and being provided with at least one shoulder (3) capable of cooperating with a circular rail (4) which in turn is supported on a basic foundation (5, 6) and also conventional mechanical means assuring the building's rotation on itself up to any revolving sense as required by the user in a permanent or continuous way and by automatic (13) or manual controlling means.

2. Rotatably revolving platform, according to the



**Fig.1**



**Fig.2**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

EP 92 87 0134

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.5)
X	FR-A-643 905 (LÉCUYER & AL)	1,3	E04B1/346
Y	* the whole document *	2,4	
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Y	FR-E-312 208 (PELLEGRIN)	2	
A	* the whole document *	1	
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Y	US-A-3 078 522 (ANDERSON)	4	
	* column 3, line 51 - column 4, line 51; figures 2,7 *		
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A	US-A-1 353 798 (STEVENS)	2,3	
	* page 1, line 43 - line 90 *		
	* page 2, line 57 - line 72; figure 1 *		
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E04B
Place of search THE HAGUE		Date of completion of the search 10 NOVEMBER 1992	Examiner PORWOLL H.P.
<p><b>CATEGORY OF CITED DOCUMENTS</b></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  .....  &amp; : member of the same patent family, corresponding document</p>			

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