

「In-vehicle automatic care system」

1/8

Elderly people and people with disabilities who are unable to stand or are blind can move freely without being a burden on their families while protecting their dignity.

Nursing facilities became unnecessary, and the city's finances improved significantly.

Autonomous driving level 6 and tentative name: FCV or EV will take you to a restaurant with care, a day service, a hospital, etc. after making an appointment. Replacement and drainage of hydrogen tanks, storage batteries, hydrogen tanks and water tanks are also automatically performed (6 km). (You can have a simple conversation with the car using the AI speaker.)

The core technologies of the in-vehicle automatic care system are the odorless "Myra Clean Toilet" and the robot washlet. Completely removes dirt) and a paradise bed that does not require tossing and turning (like the size of a dress shirt, it fits the body shape, supports the head, back, buttocks, and calves with low-resilience material, and has a hole in the buttocks for excretion. is open.)

The in-vehicle automatic nursing care system has almost eliminated the burden of nursing care for family members. It's slow, but you can go anywhere without worrying about anyone.

Numerous facilities now offer care services, and even at art museums and department stores, tipping (about 1,000 yen) can be used for elderly volunteers and extracurricular activities for high school students to change their wheelchairs and move them to places they want to see. Become.

←Supplement: In the case of EVs, repeated charging of the battery degrades its performance, especially with high-speed charging. We believe that EV and battery charging systems will not become mainstream in the future. In the future, FCV and hydrogen tank replacement type will become mainstream.

←Supplement: When we usually use a PC, hang-ups sometimes occur (stopping), but the same is true for self-driving cars, and many coincidences overlap (cannot be confirmed in reliability tests) Interrupt processing may occur and you may lose control of your vehicle. Aiming for a market failure rate of 0, the failure rate is always repeatedly analyzed and fed back, and even in a well-refined factory, the market failure rate is the limit of about 0.01%. (In the opinion of Hitachi's veteran engineers, it is about 0.1% in the case of cars), so it is necessary to assume that breakdowns and accidents will always occur. At a speed of 6 km/h, even if someone hits something, they won't be seriously injured, and in most cases people can dodge.

←Supplement: People without relatives basically live in groups, and healthy elderly people take care of them, such as changing their wheelchairs, and have conversations with their peers. Even children without parents can live here. (See P4) There are plenty of facilities such as a restaurant with care and a hot spring with 24-hour care (expanded day service without pick-up service), so even one person can live comfortably.

<LSC= low-speed self-driving car>

Gokuraku Bed (P5) and Myra Clean Toilet (P6), which automatically change hydrogen tanks or batteries and large water tanks at the automatic exchange house (P2), move at a speed of 6 km/h while working (while sleeping). do.

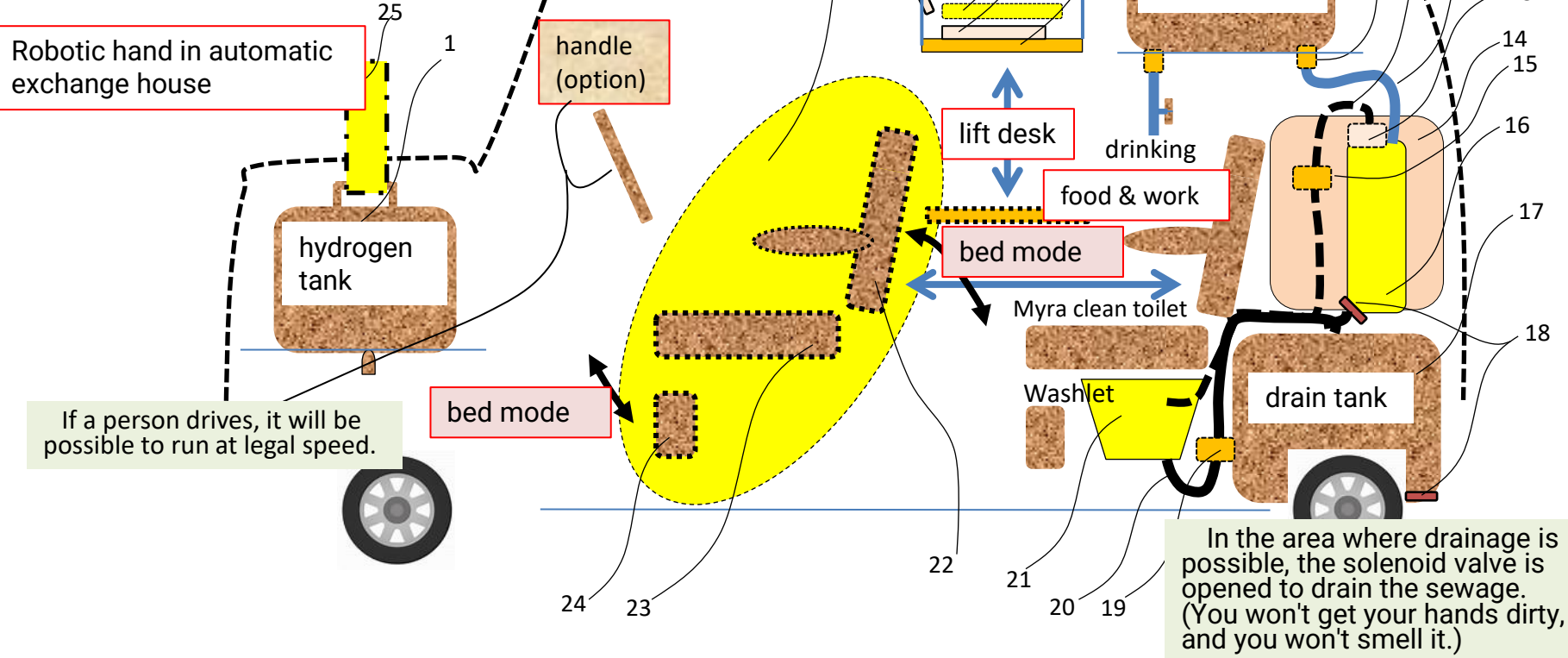
LSC has an intention with AI and takes it to a restaurant with care, a day service, a hospital, etc. after making an appointment. Replacing the hydrogen tank or storage battery & water tank and draining the water will also take action automatically. (You can have a simple conversation with the car using an AI speaker.) → "In-vehicle automated care"

With the advent of automated driving, children and blind people will ride, and we will move to an era of automatic exchange.

Autonomous driving on the tram priority road is slow at 6 km, so it is thought that people who can drive often drive.

Robotic hand in automatic exchange house

Robotic hand in automatic exchange house



If a person drives, it will be possible to run at legal speed.

In the area where drainage is possible, the solenoid valve is opened to drain the sewage. (You won't get your hands dirty, and you won't smell it.)

Drive-through type hydrogen tank automatic exchange system

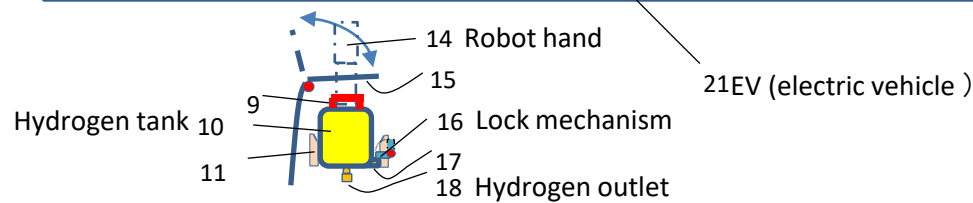
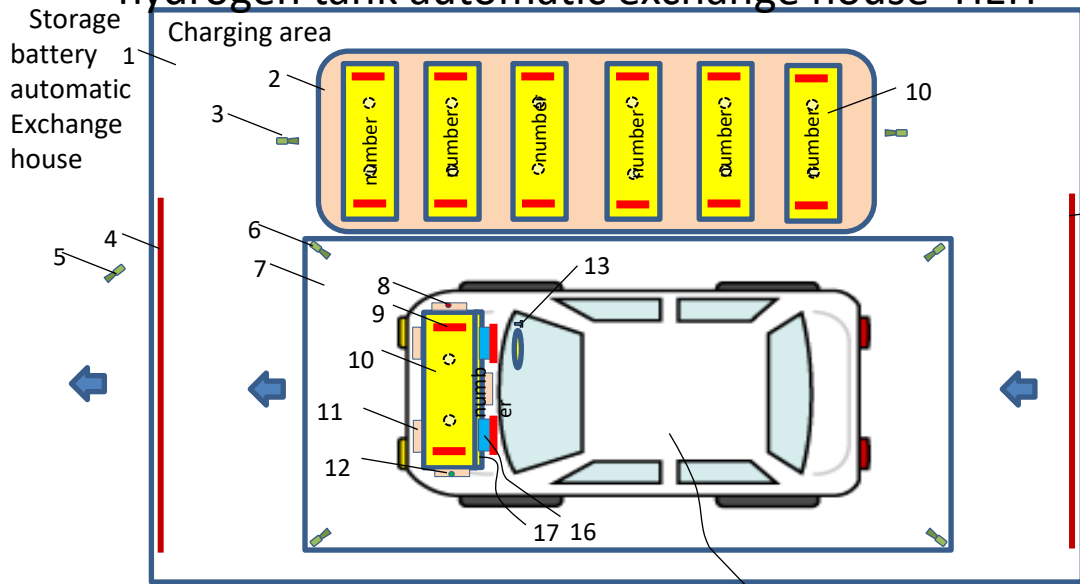
Japanese patent: 6741323

The process of replacing this hydrogen tank is easier and safer than any other system devised in the world.

In order to standardize the EU specifications globally, more ingenuity (acquisition of new patents, etc.) is required.

The energy source for system operation is a nearby tree-type solar power generation system, a pool set up in a river, water current power generation by floating an artificial island, etc., but hydrogen tanks are not filled, and LSCs for hydrogen tank transportation are used. At a tank filled with hydrogen is transported.

hydrogen tank automatic exchange house=HEH



Step1: Registered vehicle is confirmed by surveillance camera 20 and shutter = 19 is opened. (Payment is electronic payment)

Step2: LSC's AI stops the car at a given position, turns off the engine, and operates the hydrogen tank cover operation knob = 13. As a result, the front part 15 of the car opens.

Turn left to enter, right to exit.

Step3: The HEH robot confirms the contents of STEP2, unlocks the hydrogen tank, then lifts and replaces the hydrogen tank, and then locks the hydrogen tank.

Step4: After confirming STEP3, AI of LSC presses operation knob 13 and closes the battery cover. Next, HEH opens Shutter 4. (Close 19) ⇒ After confirming that the car has left, HEN closes the shutter 4.

Hydrogen tank automatic exchange house (hydrogen tank, water tank, drainage)

restaurant with care

day ervisce

hospital with care

AI World Restaurant (Reservations are made on a smartphone, and ingredients are ordered from all over the world.)

LSC: Low-speed self-driving cars help people who have difficulty living alone due to low income, disabilities, or old age living happily while helping each other.

((LSC will take you anywhere such as a department store with care, a hospital, a day service, etc.))

LSC

for each house(car) Storage

coin laundry (Large dryer)

shower & toilet

1F: AI multi cafeteria (24 hours)

1F & 2F aisles and watching seats

place of rest (children's playground)

シャワー室
トイレ
コインランドリー
各戸用収納庫

LSC

2nd floor: karaoke, mahjong, pub, table tennis, Cafe, lounge, billiards

If necessary, set up a 3rd floor or higher, and prepare a nursery school for children aged 0 to 2, a bedroom for children aged 3 to 15, a play area, a TV viewing room, a study room, etc.

Mutual care and joint childcare (because there is no diaper change)
We will create an environment where everyone can live happily.

AI surveillance (cameras) ensures a safe life.

tree type

storage battery

tree type

storage battery

tree type

Hydrogen tank automatic exchange house (=HEH)

When the remaining amount of hydrogen tank or large water tank (mainly for flushing toilets) is getting low, or when the drain tank is almost full, the LSC's AI will automatically go to HH and replace it automatically. We will respond.
(Running speed is 6km)

Blind and physically handicapped people can ride in self-driving cars, so the hydrogen tank filling type → exchange type will be the mainstream in the future.

AI multi-menu restaurant (=AMR)

The 24-hour AI cafeteria is already in practical use in China, where AI robots prepare various dishes in an extremely short time.

It calculates the temperature and humidity of the day and adjusts the seasoning and cooking time like a first-class chef. very. In addition, the cooking time is fast and you can make 200 people in 10 minutes, and it seems that you can cook more than 100 types, but it will soon reach 1000 types.

It has also been introduced for school lunches, and is very popular due to its cleanliness.



Chinese AI canteen

Restaurant with Care (=RWC)

High school students (extracurricular classes) and elderly part-timers help with eating and conversation, etc. do.

Hospital with Care (=HWC)

LSC's AI makes appointments for elderly people and people with disabilities who can't stand on their legs, and takes them to HWC. (Extension of conventional hospitals)

LSC will be positioned as an "out-of-hospital bed" for mildly ill patients.

AI World Restaurant (=AWR)

If there is a reservation request on a smartphone, the AI presents the necessary ingredients, and the person arranges and imports them. (I believe that a company specializing in food preparation will be established.)

When the schedule for arranging ingredients comes out, the smartphone will be contacted and the date and time to go to AR will be decided.

You can enjoy delicious food, wine and other alcoholic beverages, as well as coffee and tea. (If you order in bulk, it will be cheaper.)

AI multi-menu restaurant (=AMR)

You can make a set meal with your favorite ingredients and portions for breakfast, lunch, and dinner, reserved in advance on your smartphone.

When there is an ingredient that is about to expire, the MR sends a reverse request to the (registered) smartphone for a dish using that ingredient, and you can eat it at half the normal price.

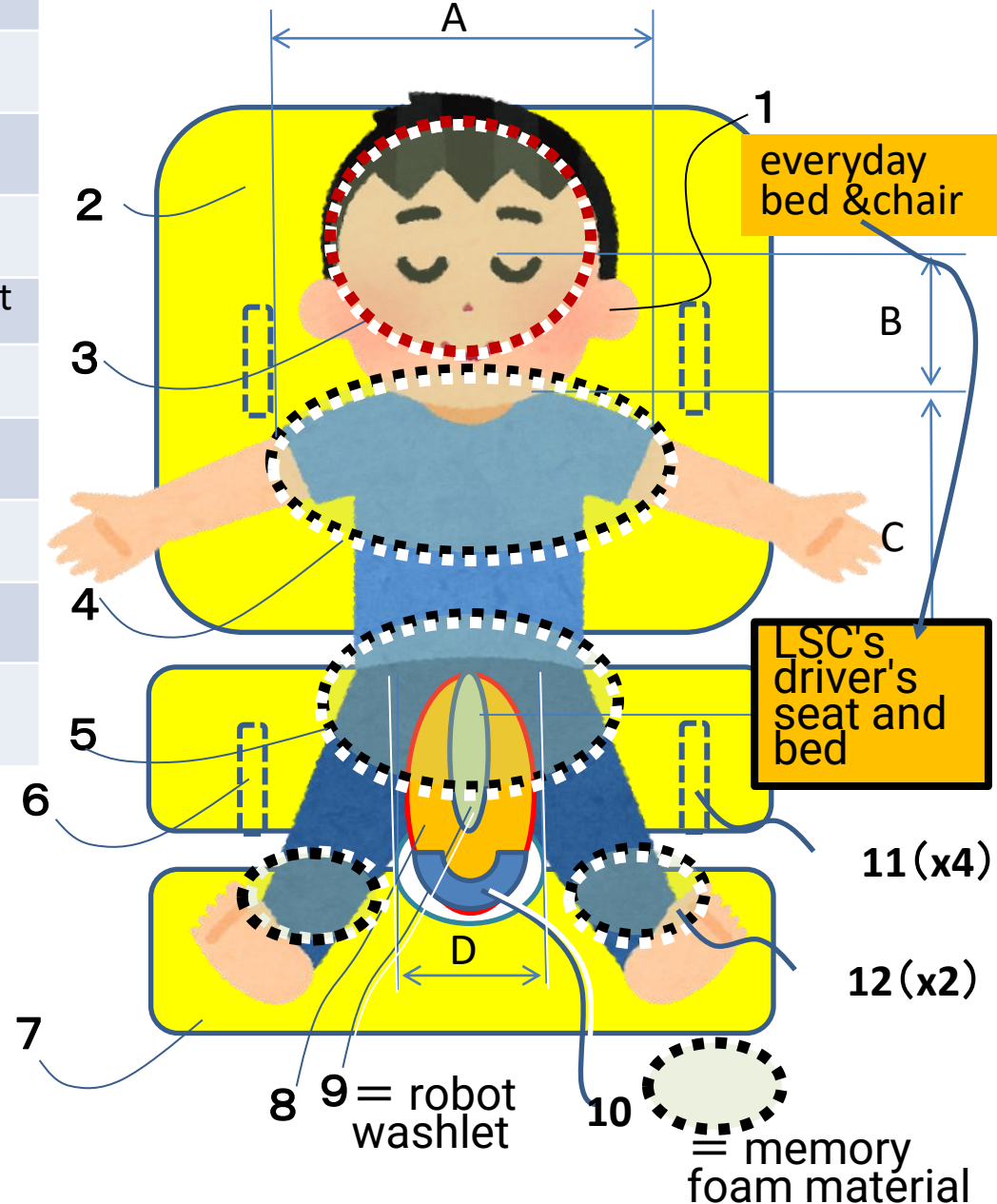
In addition, we have ice cream, snacks, and various drinks that are available at convenience stores, etc. You can check the inventory with your smartphone and receive it even if you wake up at 3:00 in the middle of the night, for example

Super paradise bed and electric reclining chair that does not require tossing and turning → Cooperate with Myra clean toilet.

	name	explanation
2	backrest	reclining function
3	head holder	Concave shape of an individual's head
4	back support	Concave shape of an individual's back
5	buttocks sup	Concave shape of an individual's back
8	hole for excretion	contact the flush toilet
9	Suribachi	Direct waste to 8.
10	Kinkakushi	Splash prevention in front
11	pneumatic tire x4	When attached to a wheelchair
12	calf holder	Concave shape of an individual's calf
A、B、C、D		Dimension measurement point

3, 4, 5, 12 use a low-resilience material (a raw egg does not break) and either manufacture it with a 3D printer or make a base and paste a low-resilience rug. Also, height adjustment (spacer) should be possible.

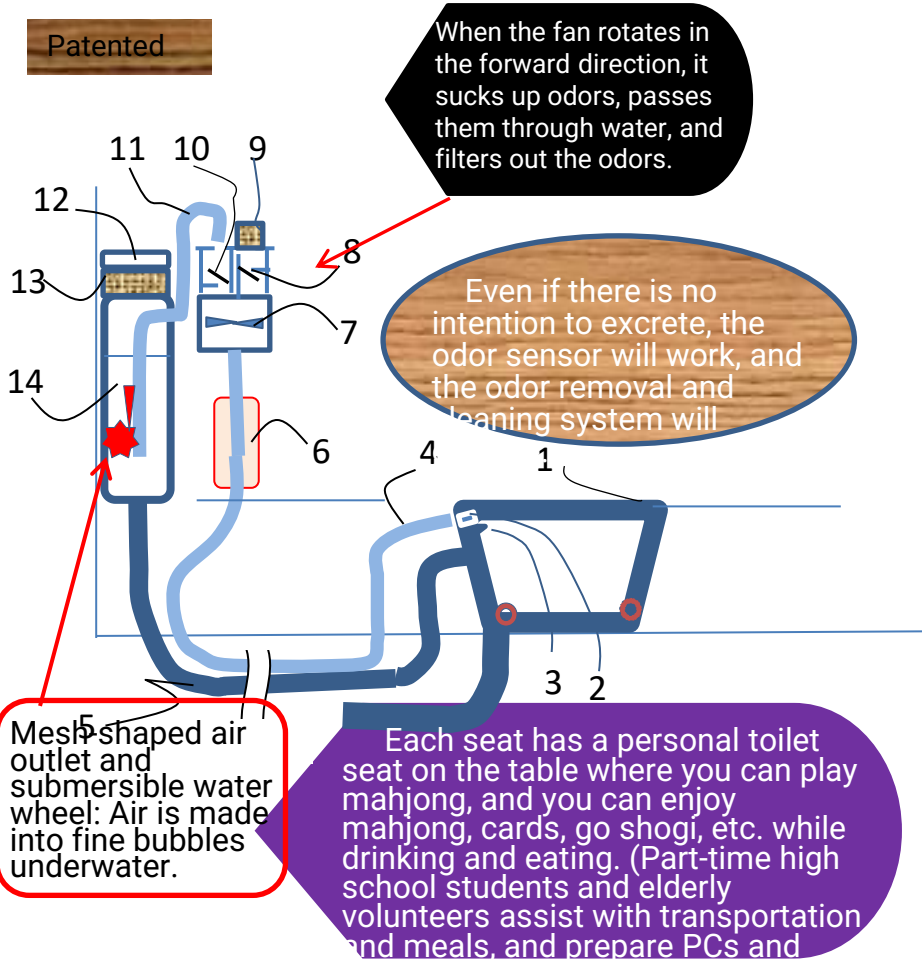
We will measure the dimensions of A to D, and will be dedicated to each individual, but we will ask you to send us a general-purpose shape (about 300,000) that takes into account race, age, and gender, and a nude image, and we will accurately identify the person. It is expected to match the shape (about 1 million).



Following the washlet, the Japanese toilet can instill the image of "the best". The structure can be illustrated in an easy-to-understand manner for anyone.

As shown in the figure on the right, the toilet is made to be a room by passing odorous air from the toilet seat through the water tank to remove most of the odor, and by completely removing the odor with a filter. If the odor remains, the fan rotates in the opposite direction to draw in the odorous air, deodorize it, and then exhale the air. Even in a private room toilet, you should be careful about entering right after someone else, but there is no odor at all, so you can use the toilet with peace of mind. It is thought that it will also spread as a private room toilet for home use.

To realize an odor-free toilet so that a care-receiver can always be with his/her family in a living room or a dining table without being forced into a private room. The burden of changing diapers will be eliminated, and even high school students and healthy elderly people will be able to provide assistance. (Family members are freed from nursing care and can continue their hobbies and work.)



1	toilet seat
2	air port
3	Washlet (with smell sensor)
4	air duct
5	sink water pipe
6	heater
7	fan
8	Check valve A
9	Deodorant/Fragrance BOX
10	Check valve B
11	water tank injection pipe
12	water tank lid
13	Deodorizing filter
14	water tank

Until the end of the day, both men and women wear heavy makeup, wear the best fashion, and wear fashionable skirts. (no panties)

AI Eternal Center

Just like your father said, you grew up to be a kind-hearted child.

You were good at sports always cheerful and energetic. Dad was always healing.

The AI Eternal Center is where the deceased lives forever in the AI server, and the family and those who have the consent of the family can talk to the deceased.

AI restoration video of deceased parents when they were young in their 30s

I wish you had told me to study harder...

she feel like a girl

When you bring in a photo of the deceased, the operator will reproduce the video of the age you want with AI. The AI server pools the voice waveforms of many actors, listens to what is close to who, and corrects the waveforms while comparing them.

It operates with a registration fee of 3,000 yen and a maintenance fee of about 3,000 yen per month. (requires) will worship on the way back and forth, and have live conversations with the deceased as if they were alive. (3,000 yen per person per hour)

The deceased person evolves with AI by accumulating past correspondence contents. If it's a child, automatically set it to the modern age.

(↑ Conversation scene with dead parents)

Municipalities allow establishment of chapels for all religious groups that have reported without suspicion of psychic marketing, etc., and each religious group establishes an AI Eternal Center, and earnings more than the income from offerings, graves, charnels, etc. be expected. 20 seats for single visitors, 10 seats for groups of up to 5 people, etc...

For a while, the AI Eternal Center will co-exist with funerals and graves, but in 50 years from now, we will reduce the number of funerals and graves more and more. (return to sea)