

Animals and We

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Abstract:

Many peoples like to have dogs or cats at home. They buy one or more animals (for example, cats, dogs, squirrels, rabbits and even tigers). It demands to apply many efforts to keep such animals in good conditions into the flat: to feed, to bring up, to train, to take a walk (not less than twice a day) and so forth. Sometimes, unfortunately, it's very different to make all kinds of these works especially if the man has the declining years. In this case now and then it is rather difficult to take a walk. There are, for examples, the next reasons: it is raining now; too cold weather or/and strong wind; age; laziness; illness; tiredness; have no time enough because you are busy and so on.

About how to get over these problems there is the description in this article. The gist of our novelty is connected with the special working principles (as a cage for a dog) and some important information about our behavior both at home and with the domestic animals (dogs).

Keywords: Run Track; Training for Dogs at Home; Cage; Automatic Driving; Stress

Text 1. Stress and Our Behaviour

It is common knowledge, that from the man's behaviour at home or in the street our life depends on this situation very much. For family it is a harmony and love between wife and husband, among children or/and with parents. If the conversations among persons are going in an amicable and quiet atmosphere practically constantly and every day, our health and nervous system will be very well. Each of us can feel quickly and sharply all (even very small) alteration in the notes of voice. Especially it will be seen if a person does not speak normally, but heightens voice and cry or in the case when the voice becomes rather rough. It feels not only any person but any domestic animals (dogs, cats, horses and so forth). Young children can feel bad stress from a teacher or from the persons of the same age or from the adult ones.

Anxious situation in a family isn't good of course and God forbid if there are different disgraces which take place very often.

This very negative atmosphere makes badly not only on people but it is the negative factor for the domestic animals too. Moreover, at the same time a man begins to feel the intermittent pulse, pains in a heart, mental anguish, head ache, sleeplessness begins to harasses and bad mood begins to appear too often. And outwardly the entourage persons can see aggressive behaviour of such person.

At last any person begins to visit doctor, begins to drink different medical mixture and buys special tablets. Practically the same bad situation takes place with the dog. But usually we don't understand it and don't take care of dog and of course don't

buy special tablets in this case for dog and in vain.

To save both our health and the dog life we must try to go for a walk more often during such period. Doctors approve that a quiet behaviour increase our life essentially and evidently for our domestic animals also!

Text 2. About Cages.

To keep the dogs in a good shape we must go for a walk with our alumnus minimum twice per diem (early in the morning and before the night). For all that the duration of the outing must be about one hour each time. Unfortunately, such period we can realize in practice very seldom. There are very many objective reasons, namely:

it is raining now; too cold weather or/and strong wind; age; laziness; illness;
 - tiredness; have no time enough because you are busy and so on.

If we essentially reduce the common term of the walk with the dog, so much the worse we make both for us and for the animal. Any man begins to be like a weak being and the same your dog begins neither only be the weak nor his weight increases, a mobile is falling and a fatness is growing also.

To help your dog you can apply the special simulations/trainers (Fig. 1, for example).

Figure (1): Two versions of simulations trainers for the dog (beg-droshky)



These working principles are not complete enough: they don't have the additional control about the definite dog's

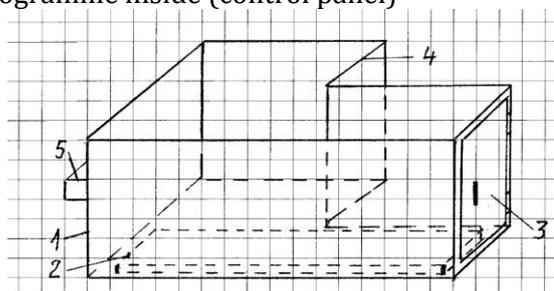
parameters, namely: age, weight, condition of the health, figure's sizes and so on.

If the owner has such factors and knows them, he/she using the control panel to put this information and the programme of working switches on the rational speed of movement for the special simulation [1, 2, 6-15].

In this case it will not be difficult for a dog to run for a long time.

The new cage was created and it is in the Fig. 2.

Figure (2): Special cage: 1 - the main body of cage; 2 - mobile runner/track; 3 - door; 4 - niche; 5 - driving block with the special programme inside (control panel)



If the walls of this cage are made from the net (as a fender), a man can pass the lead from the dog-collar through the cell outside to manage the position of the animal in the cage.

If the walls of the cage are made from the transparent and solid material, then in this case we have to make the opening in the wall for the dog-collar beforehand.

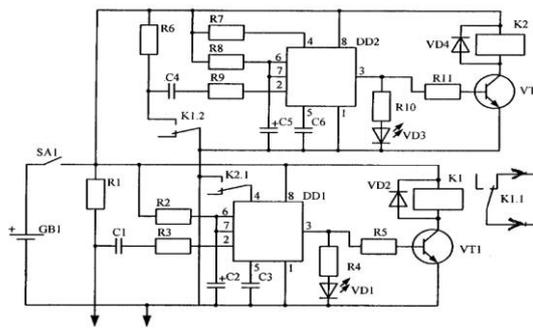
Block 5 has buttons to operate a velocity of the mobile runner (more quickly or more slowly, or stop, of course). If the dog is tired, the animal can stand in the niche to get a rest.

This stand/cage must have the instruction with recommendations what speed for the mobile runner a man must fix in accordance with the age, weight and general state of the dog.

Moreover, the upper limit of training for the dog during the time must be restricted by the automatic working principles/device.

To stop this training process automatically the next electrical circuit was applied (Fig. 3).

Figure (3): Electrical circuit



Conventional signs: SA1 – tumbler to give the electrical feeding into the system of the drive to make the control; DD1 and DD2 – timer with the micro-circuit and with the light diode (red colour diode VD2). When this timer DD2 breaks its work and this device will be in the regime of expectation before the next command from the owner. K1 is a relay which helps to start active the movement for the mobile runner/track.

Text 3

To have the right management with this mobile runner/track in the cage we recommend to use the next devices, namely:

1. thermometer to make the periodical control of the dog’s temperature;
2. balance to know exactly real weight of the dog;
3. system to control both the velocity and the acceleration of the mobile runner/track;
4. room’s thermometer;
5. measuring instrument to fix all the main measurements of the dog.

This information you have to bring in this system which can automatically set the rational regime of working (of course, a person can choose this regime of movement personally).

Moreover, the owner must prepare the bowl with water to drink for the dog after this training.

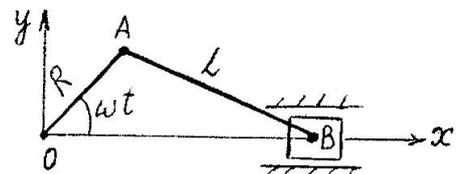
Text 4

The new design for the cage can be done using if the mobile system can do the reciprocation movement. In this case for any animal it is rather difficult situation because of the necessity for the dog to get a

move on quickly and many times. In this situation the movement by the track must be more slowly than if there is one-way traffic only. It can be done mighty easy using both computer programme and the hand way.

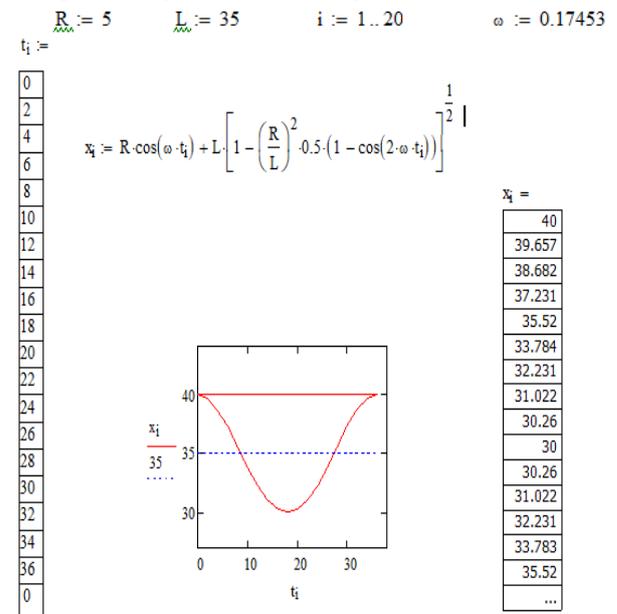
Let’s take the next mechanism to realize the reciprocation movement for the point (.)B (Fig. 4). The link 0A is a crank and it has the length $R = 5$ cm, connecting-rod AB has the length (for example) 35 cm and at last the slide-block where there is the point B. Cyclical/circular frequency or the velocity of rotation for the crank will be $\omega - 2\pi / t$ (1/sec).

Figure (4):



Below there is the computer programme in the MathCad to represent on the chart (Fig. 5) the result of movement for the slide-block (point B) [3, 4, 5].

Figure (5): The character of movement for the point B (the slide-block)



Changing the length of the links and the speed in this case there will be the optimum velocity for the track which will be more comfortable and convenient for the dog/animal.

Conclusion

Some negative factors which take place with us and with the domestic animals are represented in here and several consequences are described too. Calm behaviour and life are the main security/factor to live longer without any serious problems.

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