

Claims

1.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement. CHARACTERIZED in that it is composed of an electric gear motor (1) on whose shaft an attack gear (2) or any machine element capable of transmitting radial movement is mounted. This gear motor is mounted on a main post (3) which in turn supports the swing leaf (4), the lower bushing (5), the upper drive bushing (6), and the upper tensioner bushing (7).

2.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claim 1, CHARACTERIZED in that the upper drive bushing (6) has a circular gear machined with the necessary teeth to achieve an opening of at least 90° , which is in turn mounted on the main post (3) just like the lower bushing (5) and the upper tensioner bushing (7). These bushings embrace the diameter of the main post, making the opening and closing work of the swing leaf (4) very stable.

3.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claim 1, CHARACTERIZED in that the gear motor (1) can be operated by remote control, cell phone, or analog device, thanks to its electronic control board, which has a series of relays and connections that allow the device to be automated.

4.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claim 1, CHARACTERIZED in that the main post (3) can be anchored directly into a concrete foundation or anchored to a pre-existing foundation with anchor bolts.

5.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claim 1, CHARACTERIZED in that the attack gear (2) transmits its movement to the upper drive bushing (6), allowing it to rotate on its axis while embracing the main post (3), thus performing the opening or closing work.

6.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claims 1, 2, and 5, CHARACTERIZED in that the main drive bushing (6), the upper tensioner bushing (7), and the lower bushing (5) all have wings that allow the swing leaves to be mounted, either welded or bolted, with the material and design the user chooses. Furthermore, these bushings have channels on their lower perimeter specifically designed to maintain lubrication, which is applied through grease fittings.

7.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claims 1, 2, and 3, CHARACTERIZED in that sensors are mounted on the main post (3) and the gear motor support (1) that stop the electric motor when the swing leaf (4) is in the closed position or in the open position.

8.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement according to claims 1, 2, and 7, CHARACTERIZED in that at the upper part of the main post, the upper tensioner bushing (7) is mounted. This bushing is connected to the end of the swing leaf (4) by means of eye bolts and a steel cable. This tensioner relieves the loads on the bushings, making the opening and closing work smoother and lighter for the gear motor.

9.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement. CHARACTERIZED in that it is designed to be used as gates for livestock passage. By being able to swing 180°, it can be configured to open according to the direction of the livestock.

10.- A motorized device for the opening and closing of swing gates and doors that allows access to be opened or closed by radial movement. Designed to be used as an automated home gate with various mobile phone virtual assistant applications.