

UNIVERSAL MOBILE COMPLEX FOR FISH BREEDING

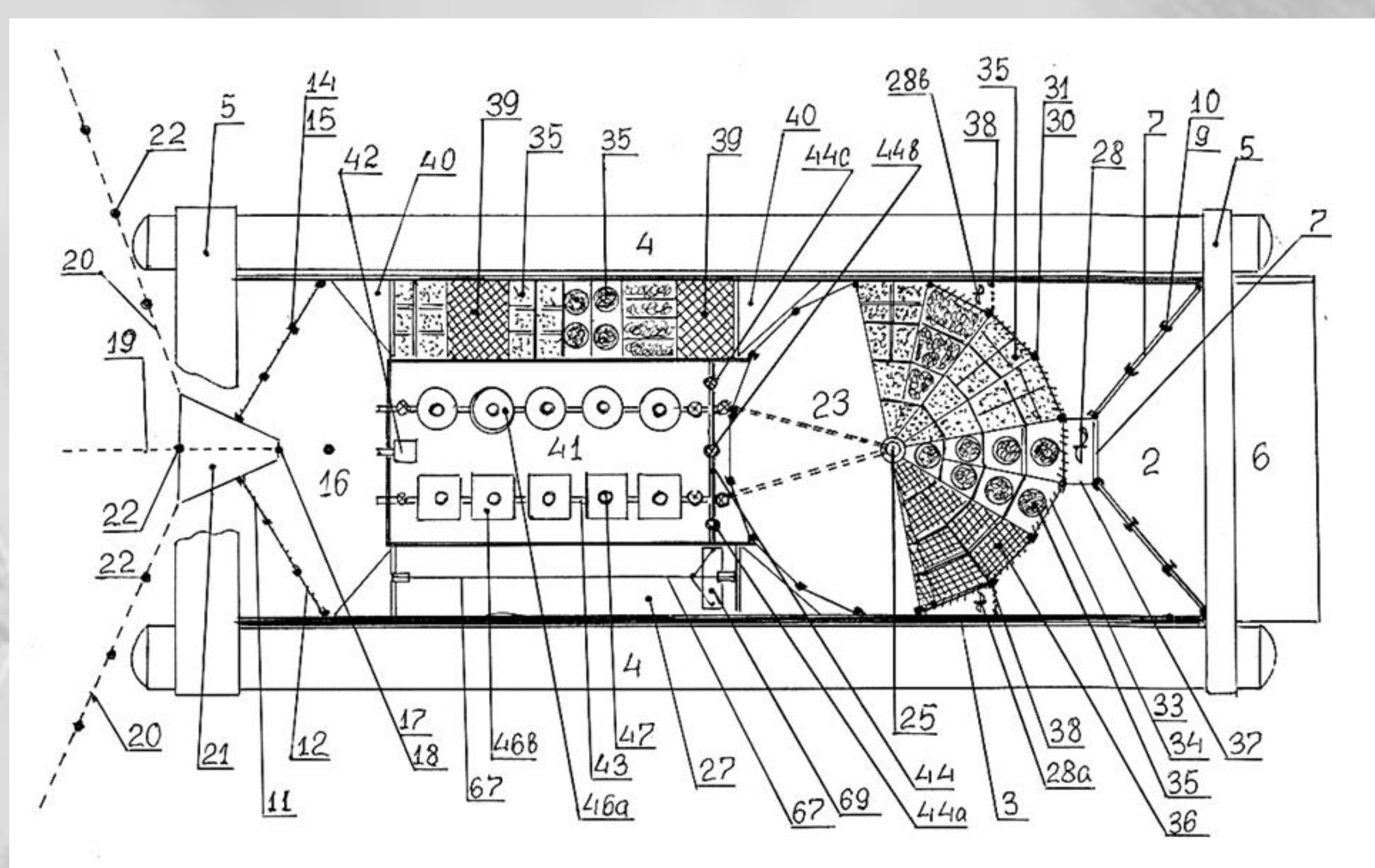
Patent positive decision MD nr. 10196 /2023.01.13

AUTHORS: Crepis Oleg; Bulat Dumitru; Zubcov Elena; Bulat Denis

APPLICATION FIELDS: Fish farming

AIM:Increasing the efficiency of natural reproduction of fish of different ecological groups due to new structural elements of the complex

SOLUTION:The complex, according to the invention, contains a floating dock, in which a spawner capture system, a fish reproduction system and a spawn collection and incubation system are located. The spawner capture system consists of a compartment (16) for the collection of spawners and a device for moving the spawners, made in the form of a net trap, and is equipped with physical radiation propagation sources (22). The fish breeding system contains a cylindrical basin (23) with species-specific artificial substrates (35) and a conical bottom (24) with a central drain hole (25). In which a vertical perforated exhaust pipe (26) is fixed, as well as compartments with propeller motors (28, 28a and 28b). The spawn collection and incubation system contains a rectangular basin (41), in which containers (46a and 46b) are placed in rows for collecting and incubating the eggs, as well as a device for collecting the deposited eggs.



ADVANTAGES: increasing the effectiveness of natural reproduction of fish from different ecological groups due to the new constructive elements of the complex, which allow the reproduction of fish with different reproductive biology in controlled environmental conditions, the modeling of specific hydrological conditions and breeding spaces for fish with different reproductive ecology, ensuring the high vitality of the embryonated eggs in optimal environmental conditions in the new system of collecting eggs after reproduction and new devices for incubating eggs and keeping fish larvae.

IMPLEMENTATION STAGE: At the laboratory level

ACKNOWLEDGMENTS: This research was supported by the State Program 20.80009.7007.06