GENERALIZED APPARATUS FOR BEHAVIORAL ASSESSMENT (GABA)

Tech ID: 33786 / UC Case 2025-047-0

PATENT STATUS

Patent Pending

BRIEF DESCRIPTION

The Generalized Apparatus for Behavioral Assessment (GABA) is an automated system designed to precisely deliver liquid and/or air stimuli to a subject while holding them in a fixed position. The system comprises a base, a platform, and one or more restraining arms to position the subject. A translational manipulator holds a plurality of spouts, which are connected to a liquid delivery system and an air delivery system. A controller orchestrates the delivery of stimuli, allowing for highly controlled and repeatable behavioral assessments. The system's modular design and use of a translational manipulator for multiple spouts enable a wide range of experimental setups and protocols.

SUGGESTED USES

- Neurological and behavioral studies on small animals.
- Automated high-throughput screening for drug discovery.
- Analyzing the effects of various stimuli on subjects in a controlled environment.
- Research on addiction and substance abuse.
- Evaluating cognitive function and decision-making processes.

ADVANTAGES

- Precision: The system allows for highly precise and repeatable delivery of stimuli, minimizing human error and variability.
- Automation: Full automation of the experimental protocol frees up researchers and ensures consistency across trials.
- Flexibility: The use of multiple spouts and a translational manipulator allows for the delivery of a variety of stimuli in different combinations and sequences.
- Modularity: The system's components can be easily adapted or reconfigured for different experimental needs.
- Efficiency: High-throughput capabilities enable the rapid assessment of a large number of subjects or conditions.

RELATED MATERIALS

CONTACT

Craig K. Kennedy
craig.kennedy@berkeley.edu
tel: .

INVENTORS

» Lammel, Stephan

OTHER INFORMATION

CATEGORIZED AS

» **Medical**

» Research Tools

» **Sensors & Instrumentation**

» Scientific/Research

RELATED CASES

2025-047-0

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