

ABSTRACT

Problem: To provide a liquid material ejection device in which a plunger can be efficiently accelerated, the center of gravity of the device can be positioned at a lower level, and satisfactory maintainability can be obtained, and an application apparatus incorporating the liquid material ejection device. Solution: The liquid material ejection device includes a liquid chamber communicating with an ejection port and being supplied with a liquid material, a plunger including a tip portion that has a smaller diameter than the liquid chamber and is moved back and forth in the liquid chamber, an elastic member urging the plunger upward, an arm disposed in a state extending in a substantially horizontal direction, an arm driver serving as a driving source to operate the arm, and a base member on which the arm driver is disposed, wherein the liquid material ejection device further includes a rocking mechanism unit connected to the arm driver and rockingly supporting the arm, the arm driver includes a plurality of actuators disposed in a longitudinal direction of the arm, the arm includes a pressing portion pressing the plunger downward, the plunger includes a contact portion pressed by the pressing portion, and the plunger is linearly reciprocated with rocking motion of the arm. The application apparatus incorporates the liquid material ejection device.

Figure 7