

ABSTRACT OF THE DISCLOSURE
OVERLOAD SAFETY APPARATUS FOR ROBOT
HAND

The invention provides an overload safety apparatus for a robot hand in which a safety apparatus for an overload is simplified in structure, and which is reduced in size, weight and cost by a method of magnetically attracting a robot hand and supporting the same by a shaft, so that an effective function for the overload in the lateral direction, vertical direction or fore-and-aft direction exerted to the robot hand is achieved. There is provided an overload safety apparatus for a robot hand in which a first magnetically attracting bearing face 3 is provided at a portion where a robot hand 4 is mounted, and a second magnetically attracting bearing face 9 is provided on the robot hand 4, so that the second magnetically attracting bearing face 9 is caused to be magnetically attracted by the first magnetically attracting bearing face 3 and hence the robot hand 4 is mounted and supported, and in which a shaft 10 projecting from one of the first and second magnetically attracting bearing faces 3, 9 is fitted into a hole or groove 11 opening on the other bearing face, so that the robot hand 4 is caused to rotate in the lateral direction, to move in the vertical direction or to incline in the fore-and-aft direction against the magnetically attracting force via the fitting between the shaft and the hole or groove 11

by an overload exerted to the robot hand 4.