

DEPINCHING MECHANISM FOR PAPER JAM REMOVAL IN PRINTER

ABSTRACT

A depinching mechanism including a frame, a tray, a transmitting device and a sensor is provided in present invention. Through the transmitting device rotating
5 reversely, the tray is lifted to the second position when paper jam occurs, thus depinched the media so that user can clear the paper jam. After that the tray is lowered to the first position again. The tray remains in the first position in normal printing process. Using a one-way clutch and a cam with an outer predetermined profile, the transmitting device rotates forwardly without transmitting any torque during normal
10 printing process, and rotates inversely with transmitting a torque to lift the tray up and lower the tray down when paper jam occurs. Thus, the depinching mechanism can be used in printers to auto fix the paper jamming problems.

Figure 1