

ABSTRACT

Provided is a pile rapid loading testing device with which it is possible to quickly catch, in midair, a weight that has fallen onto a pile head and bounced. A weight-catching device 5 for catching, in midair, a weight 3 which has fallen onto a pile head "a" and bounced is installed. The weight-catching device 5 comprises a clamp case 9 having a holder inscription hole 15 whose inner circumferential surface forms a tapered surface that gradually decreases in diameter downwards, a movable body holder 8 disposed above the clamp case 9 and configured to fall and become inscribed in the holder inscription hole 15, and a permanent electromagnetic holder 10 disposed above the movable body holder 8 and configured to attract the movable body holder 8 only when generating a magnetic force. The movable body holder 8 has a holder body 11 and a plurality of balls 12 which are pushed by the inner circumferential surface 15a of the holder inscription hole 15 at the same time as falling into the holder inscription hole 15, thereby being allowed to clamp a weight-catching rod 7 extending from the weight 3.