

ABSTRACT

EXPANSION BOLT

An expansion bolt which includes a screw bolt (1) having a head (11) at one end, and an outer thread (12) around the periphery; a locating socket (2) sleeved onto the screw bolt (1), having two opposite wings (21) stopped at the head (11) of the screw bolt (1) and two opposite longitudinal slots (22) bilaterally spaced between the wings (21); a plurality of expansion shells (3) respectively sleeved onto the screw bolt (1), each having a tapered locating portion (31) at one end, a receptacle portion (33) at an opposite end, two opposite longitudinal wedge blocks (32) raised from the periphery of the tapered locating portion (31), and two opposite longitudinal slots (34) made on the receptacle portion (33), the longitudinal slots (34) of one expansion shell (3) receiving the wedge blocks (32) of another, the wedge blocks (32) of one expansion shell (3) being respectively inserted into the longitudinal slots (22) of the locating socket (2); and a tightening-up member (4) threaded onto the outer thread (21) of the screw bolt (1), having two opposite wedge blocks 41 respectively inserted into the longitudinal slots (34) of one expansion shell (3), wherein the tightening-up member (4) is forced to compress the expansion shells (3) axially, causing them to expand radially when the screw bolt (1) is turned inwards.

