

PATENT SPECIFICATION

DRAWINGS ATTACHED

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COMPLETE SPECIFICATION

Improvements in or relating to Distance Pieces for Concrete Reinforcing Rods

I, KEITH WILLIAM OLIVER, a British Subject of 183 Abbey Hey Lane, Gorton, Manchester, 18, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a distance piece for supporting a reinforcing member in spaced relationship from a surface, and comprising a base adapted to stand on the surface and provided with means for supporting the reinforcing member, the dimension between the base part and the supporting means determining the height above the surface at which the reinforcing member is supported.

Distance pieces of the kind referred to are commonly used for positioning reinforcing rods in moulds to be used for casting concrete members having such rods embedded therein, the distance pieces being embedded in the concrete and forming part of the finished concrete product.

According to the invention a distance piece of the kind referred to comprises a body portion of substantially triangular shape with a pair of arms or wings extending upwardly from the apex of the body portion when the base of the triangle is lowermost, the arms or wings defining a channel to receive the reinforcing member extending at right angles to the triangular face of the body, feet formed at the corners of the base of the triangle and extending at right angles to the face thereof and parallel with the reinforcing member.

The invention will be described with reference to the accompanying drawings:—

Fig. 1 is a perspective view of two distance pieces supporting a reinforcing bar.

Fig. 2 is an end view partly in section of a distance piece and reinforcing bar.

A distance piece A for supporting a reinforcing bar B is formed with a body part a

with one or more apertures a^1 passing there-through in regions thereof below supporting arms or wings a^2 which define a channel to receive the reinforcing bar B. The distance piece is moulded from a resilient mouldable plastics material such as polyvinyl chloride or polyurethane.

The distance piece A is constructed with a base plate a^3 of substantially triangular shape and two spaced parallel cylindrical members a^4 forming feet extending from the body portion. The supporting arms or wings a^2 are arranged parallel to each other and extend from the apex of the body part a and the cylindrical feet are located at the remaining two corners of the body part respectively and are disposed at right angles to the body and extend for a short distance on either side thereof.

The bottom edge a^5 of the body parts extending between the feet a^4 is of concave shape so that when the distance piece A is located by the feet a^4 on a surface, the bottom edge of the base part a^3 is spaced from the surface.

The free ends of the arms a^2 are formed with an inwardly extending lip a^5 to engage the bar B.

In use the distance piece A is located by the feet a^4 on a surface 1 which is to be filled or covered with concrete or the like such as that of a mould or a floor, for example. The reinforcing rod B is inserted between the arms or wings a^2 which, owing to their resilience, may be forced apart by the rod for this purpose. The rod B is firmly located between the arms or wings a^2 by the lips a^5 and rests between the arms or wings and is supported in spaced relationship at a distance determined by the dimensions of the distance piece A from the surface 1.

Concrete is poured onto the surface and the reinforcing rod B together with the distance

*pieces*

piece A supporting same are embedded therein.

- 5 The distance pieces A are firmly secured in the concrete particularly by the concrete which passes under the concave portion between the feet and the surface and by the concrete which passes through the hole a^1 .

- 10 When the distance pieces A are used in a mould for the production of a reinforced concrete unit and the unit is removed from the mould after the concrete has set, little, if any, of each distance piece A being visible since the surface of the mould only contacts the distance piece tangentially along two
15 spaced parallel lines located axially on the periphery of the two feet a^1 .

WHAT I CLAIM IS:—

- 20 1. A distance piece of the type referred to for supporting a reinforcing member comprising a body portion of substantially triangular shape with a pair or arms or wings

extending upwardly from the apex of the body portion when the base of the triangle is lowermost, the arms or wings defining a channel to receive the reinforcing member extending at right angles to the triangular face of the body, feet formed at the corners of the base of the triangle and extending at right angles to the face thereof and parallel with the reinforcing member. 25

2. A distance piece as in Claim 1 in which the free ends of the arms or wings are formed with inwardly extending lips to engage the reinforcing member when this latter is sprung between the arms. 30

3. A distance piece for supporting a reinforcing member in spaced relationship from a surface substantially as described with reference to the accompanying drawings. 35

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