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SOCKET FOR EXPANSION BOLT SHIELDS

Filed June 19, 1925

Fig. 1.

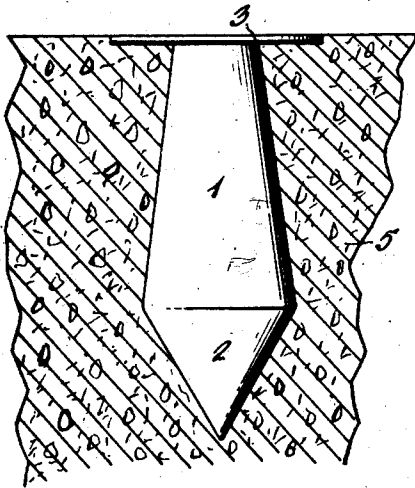


Fig. 2.

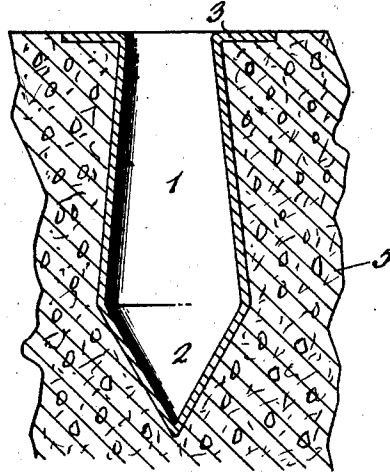


Fig. 3.

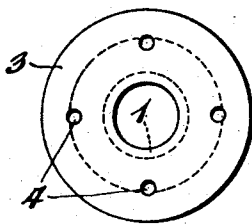
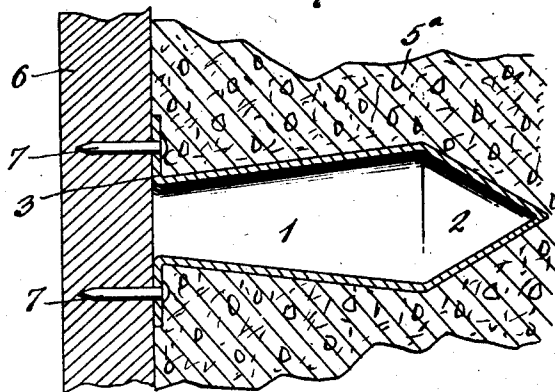


Fig. 4.



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SOCKET FOR EXPANSION-BOLT SHIELDS.

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This invention relates to sockets or receptacles such as are adapted to form cavities in concrete and to receive bolts there-
within. In the form of the invention which
is shown herein, the socket or receptacle is
adapted for the reception of an expansion
shield and its bolt.

It is the general purpose and object of the
invention to provide a socket of this charac-
ter which may be conveniently applied to
and which will remain in the concrete; also
a socket which, while being particularly well
adapted for use with concrete floorings, may
be also used in connection with concrete
walls other than floorings.

We accomplish the foregoing objects and
other and more limited objects (to be set
forth hereinafter) in and through the con-
struction and arrangement of parts shown
in the drawings, wherein Fig. 1 represents
a side elevation of a socket constructed in
accordance with our invention, illustrating
the manner in which it is applied to a con-
crete floor, the concrete being shown in sec-
tion; Fig. 2 a vertical sectional view
through the socket, showing the concrete;
Fig. 3 an elevation of the socket shown in
the preceding views; and Fig. 4 a view, sim-
ilar to Fig. 2, showing the socket applied to
a mold board.

Describing the various parts by reference
characters and in connection with Figs. 1-3
inclusive, the socket comprises generally a
body 1 which gradually expands in cross-
sectional area from the outer end thereof
toward the inner end, the extreme inner end
portion 2 being conical. The outer end of
the socket is provided with a flange 3 at
right angles to the axis thereof, the said
flange being provided with a plurality of
apertures 4 therethrough which are adapted
to receive nails or screws.

In the use of our socket or receptacle with
concrete flooring, when the concrete is laid
the socket is pushed down into place, as
shown in Figs. 1 and 2, with the flange 3
resting on the concrete. The action of in-
serting the socket into the concrete is facili-

tated by the conical shape of the end 2 there-
of, while the increasing cross-sectional area
of the part 1 from the outer end inwardly
enables the socket or receptacle to be re-
tained firmly within the concrete when the
latter has set. Furthermore, the conical end
2 provides a tapered wall against which the
inner end of the expansion bolt shield may
abut while the bolt is being set up and thus
prevent the turning of the shield within the
socket or receptacle.

In Fig. 4, our socket is shown in use with
a molded concrete wall or body 5^a, in which
case the flange 3 is secured to the mold mem-
ber 6 by means of nails or screws 7, the former
being indicated. When used in this
manner, after the mold boards or panels are
set up, with the sockets or receptacles ap-
plied thereto, the concrete is poured in the
usual manner. When the concrete is set, the
boards or panels 6 are pried loose from the
molded wall, leaving the sockets in place.

The socket shown and described herein is
simple in construction and economical of
production, while entirely capable of accom-
plishing the purposes for which it is de-
signed.

Having thus described our invention what
we claim is:—

1. A socket for the purpose set forth com-
prising a hollow body which is of gradu-
ally increasing cross-sectional area from the
outer end toward the inner end and having a
pointed or conical inner end, the outer end
of the body being provided with a flange
extending at substantially right angles to
the axis thereof.

2. A socket for the purpose set forth com-
prising a hollow body which is of gradually
increasing cross sectional area from the
outer end toward the inner end and having
a pointed or conical inner end.

3. A socket for the purpose set forth com-
prising a hollow body which is of increas-
ing cross-sectional area from the outer end
toward the inner end thereof and which is
provided with a conical inner end, the outer
end of the body having a flange projecting

at substantially right angles to the axis thereof, the said flange having one or more apertures enabling the body to be secured to a mold board or panel. body having a flange projecting at substantially right angles thereto and adapted to be secured to a mold board or panel. 10

5 4. A socket for the purpose set forth comprising a tapered hollow body having its inner end pointed, the outer end of said

In testimony whereof, we hereunto affix our signatures.

ALVIN S. FISHEL.
ELI I. GOULDER.