



FIG. 1 (Prior Art)

10

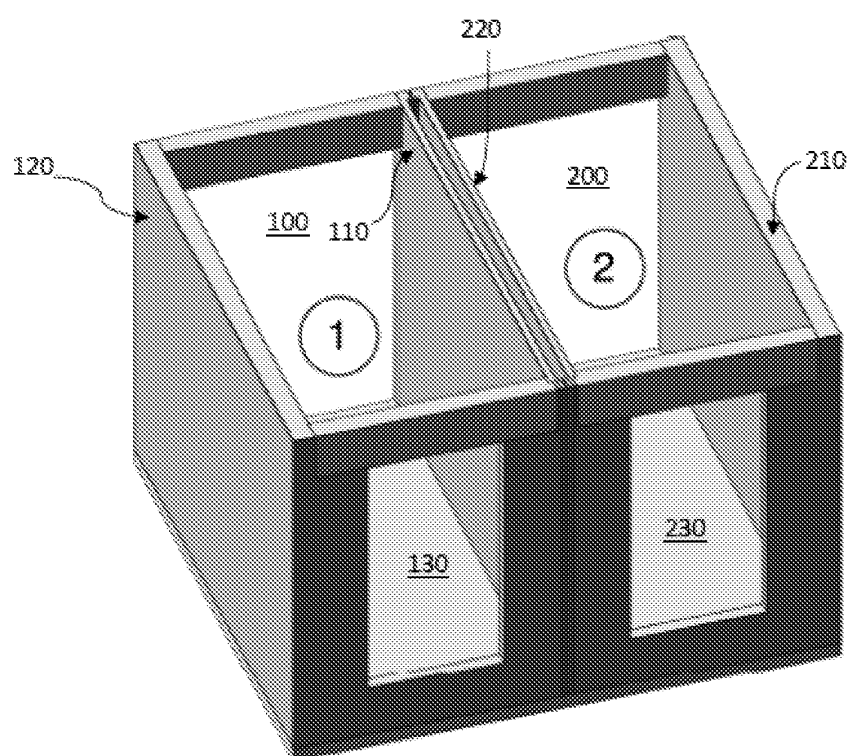


FIG. 2

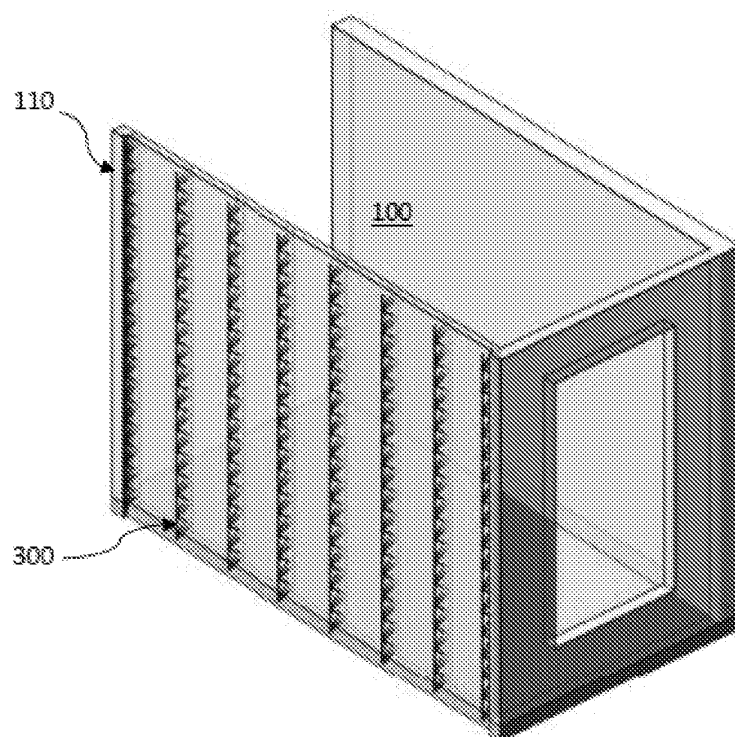


FIG. 3

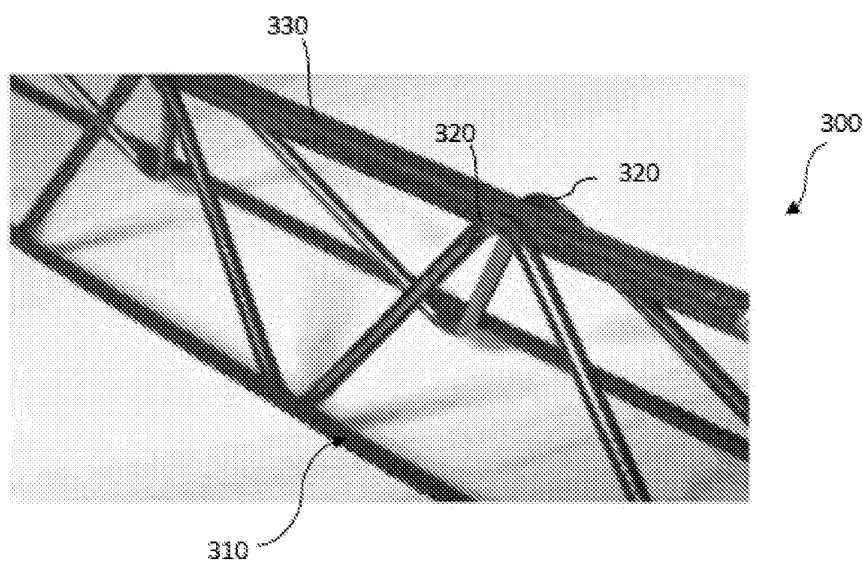


FIG. 4

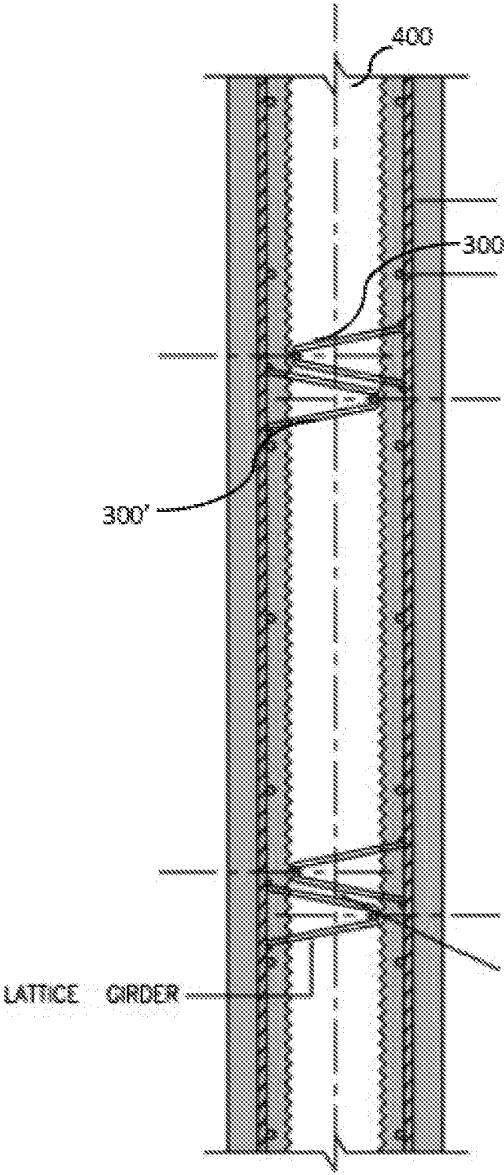


FIG. 5

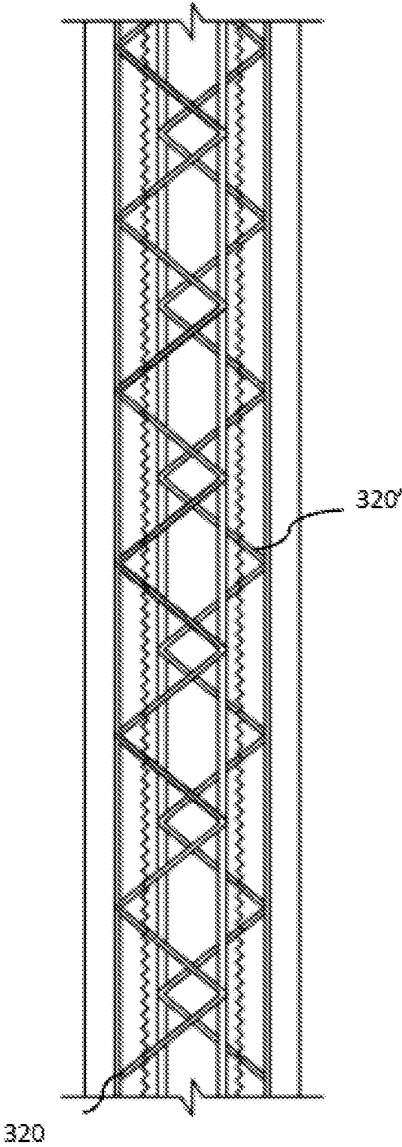


FIG. 6

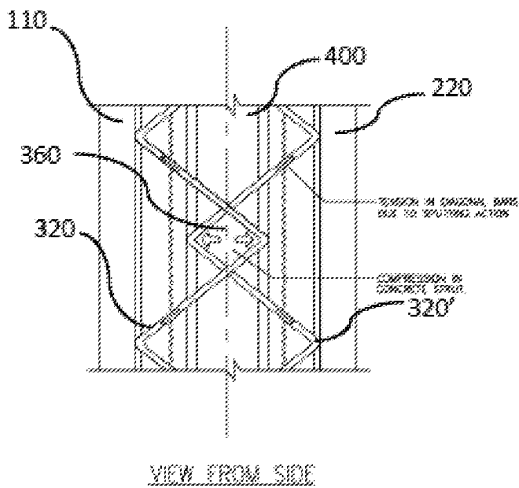


FIG. 7A

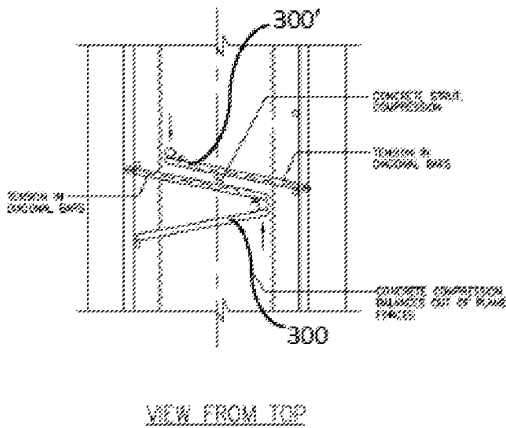
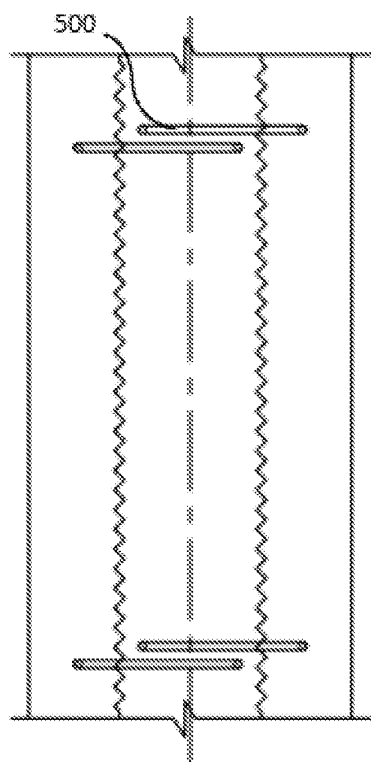
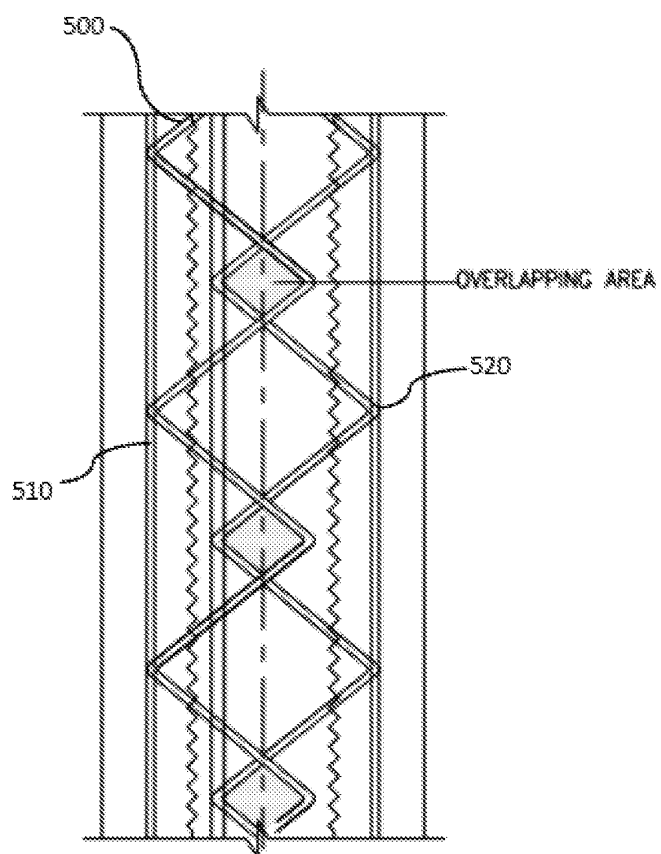


FIG. 7B



VIEW FROM TOP

FIG. 8A



VIEW FROM SIDE

FIG. 8B

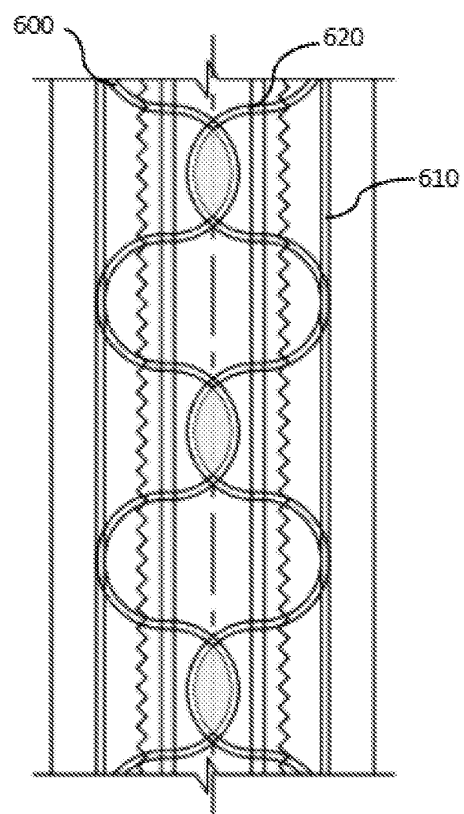


FIG. 9

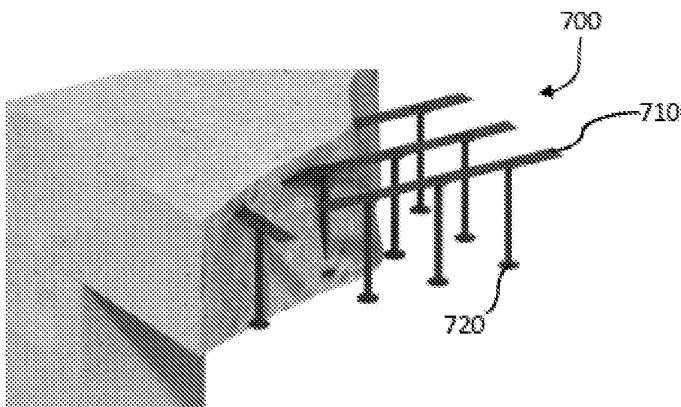
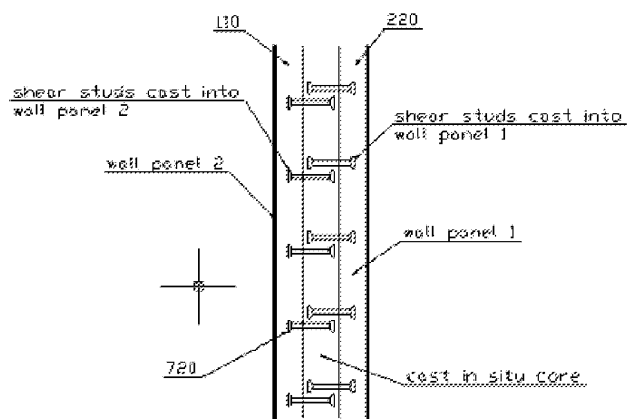
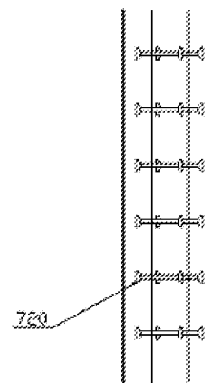


FIG. 10



BLOW UP VIEW OF
SHEAR STUDS FROM TOP
FIG 11A



VIEW OF
SHEAR STUDS FROM SIDE
FIG 11B

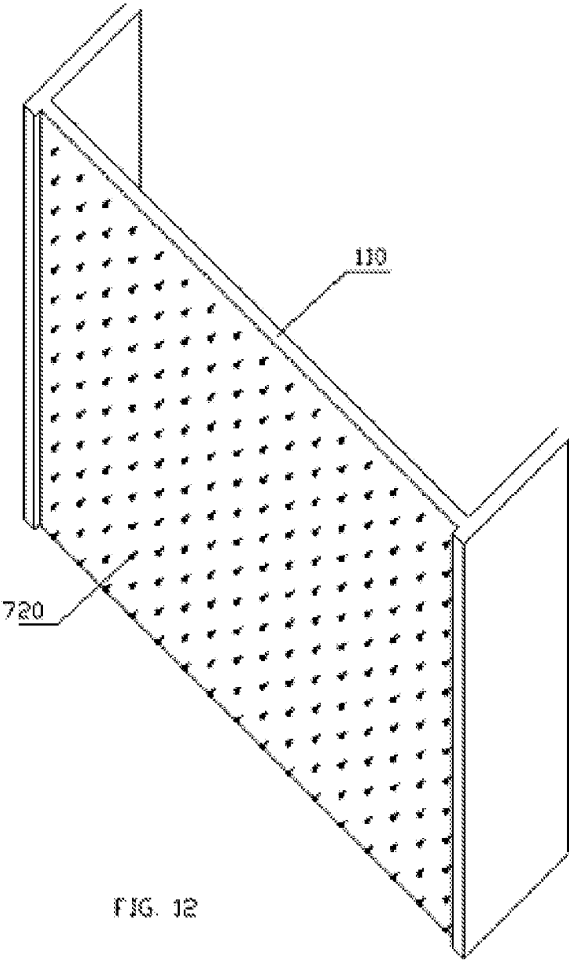
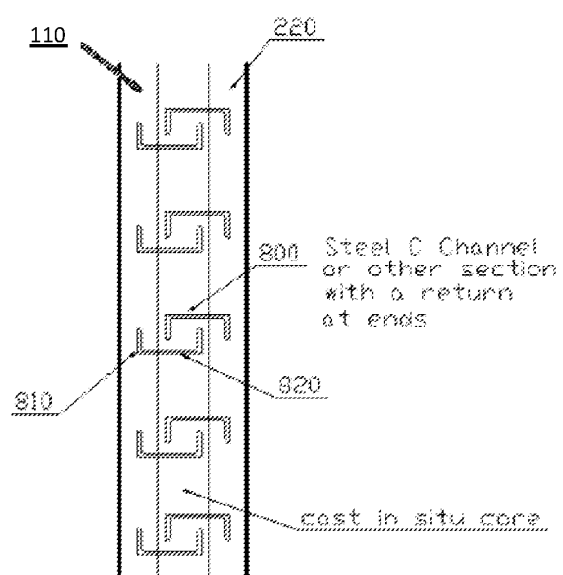
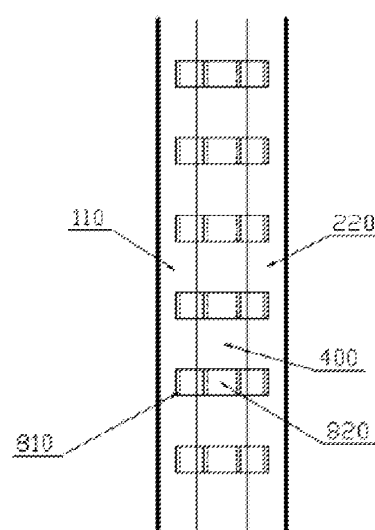


FIG. 12



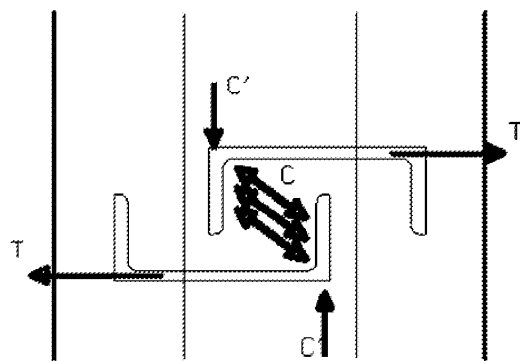
VIEW FROM TOP

FIG 14A



VIEW FROM SIDE

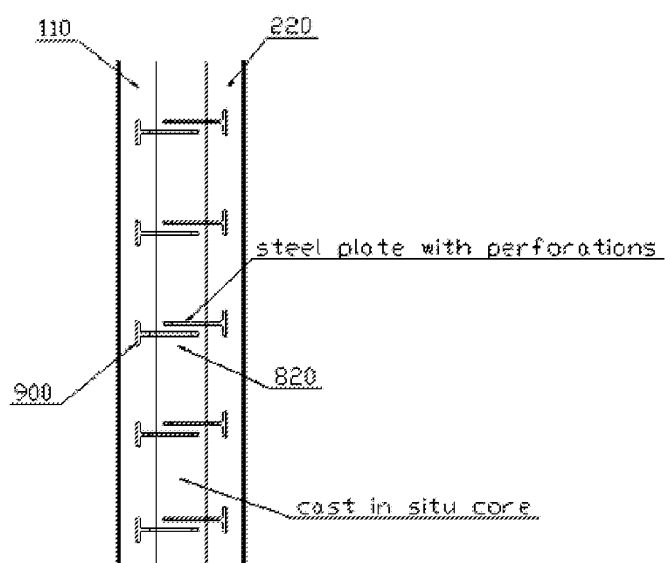
FIG 14B



- T - Tension in shear studs due to splitting forces
- C - compression force in concrete strut
- C' - balancing concrete force in concrete

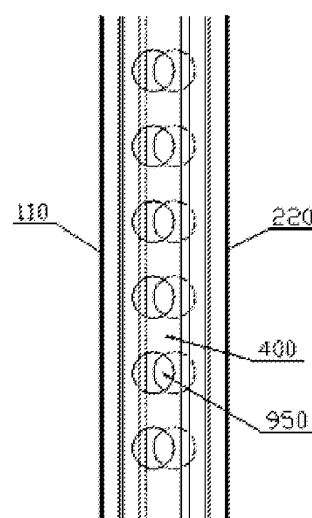
STRUCTURAL ACTION OF
OVERLAPPING SHEAR STUDS

FIG 14C



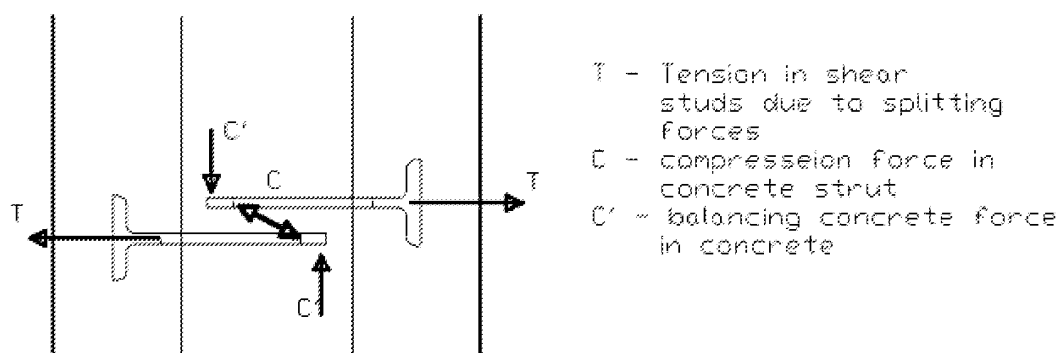
VIEW FROM TOP

FIG 15A



VIEW FROM SIDE

FIG 15B



STRUCTURAL ACTION OF
2 PERFORATED PLATES SIDE BY SIDE

FIG 15C

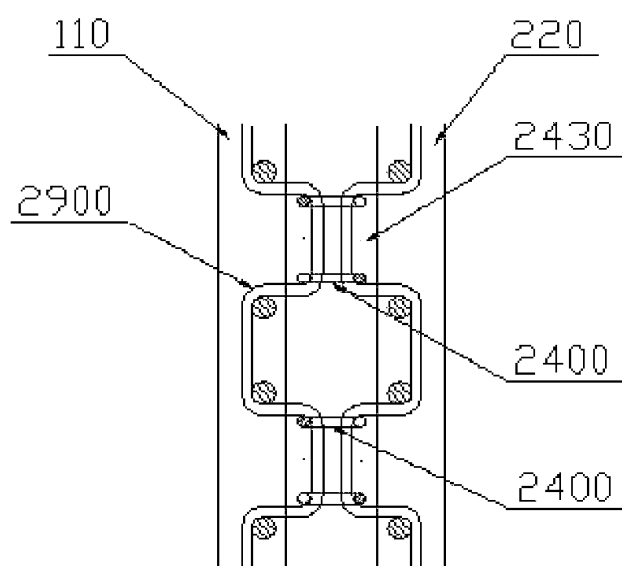


FIG 15D TOP VIEW

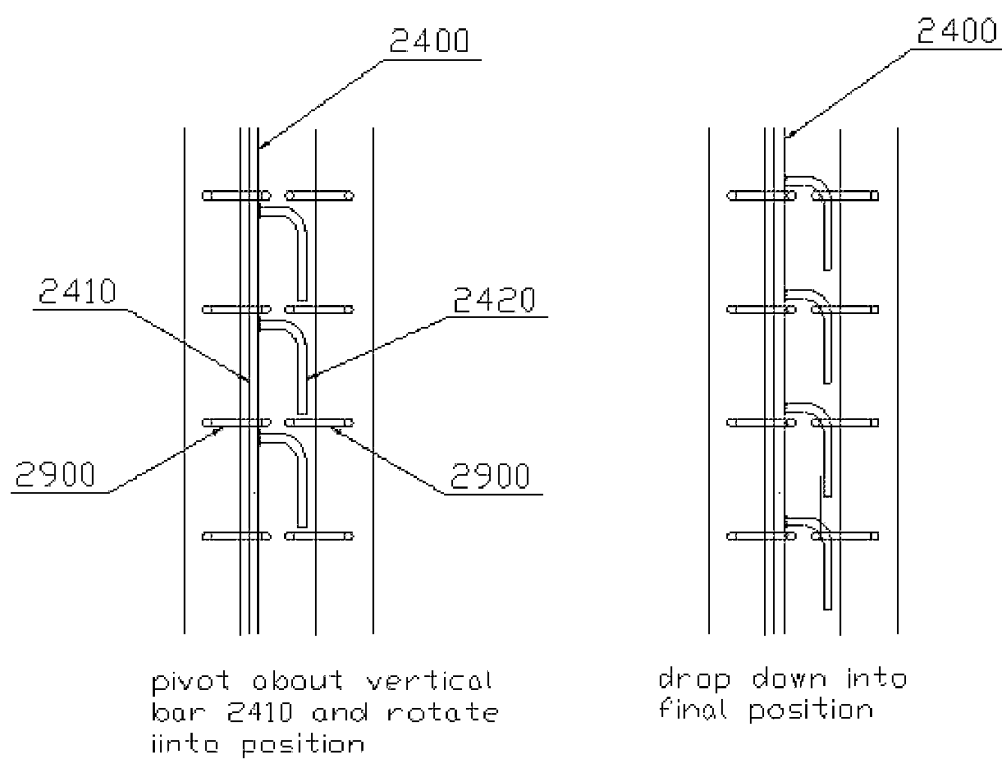
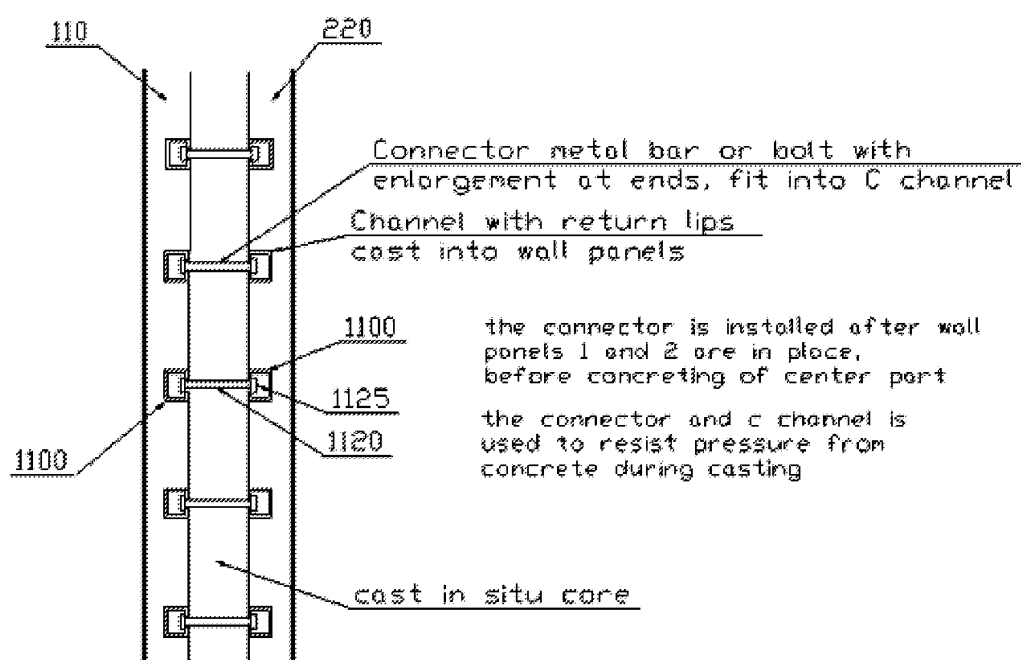
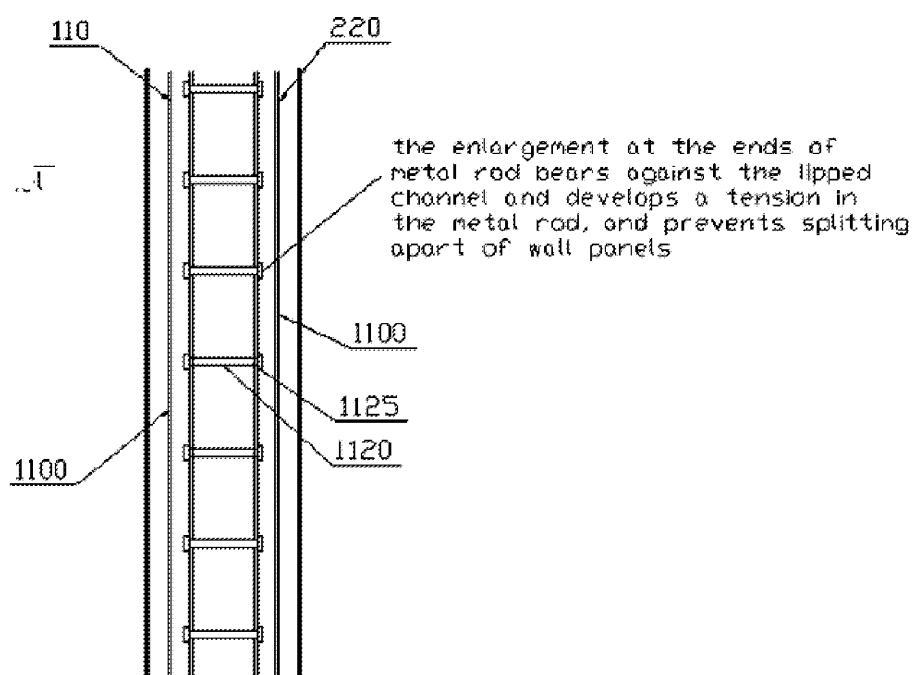


FIG 15E SIDE VIEW



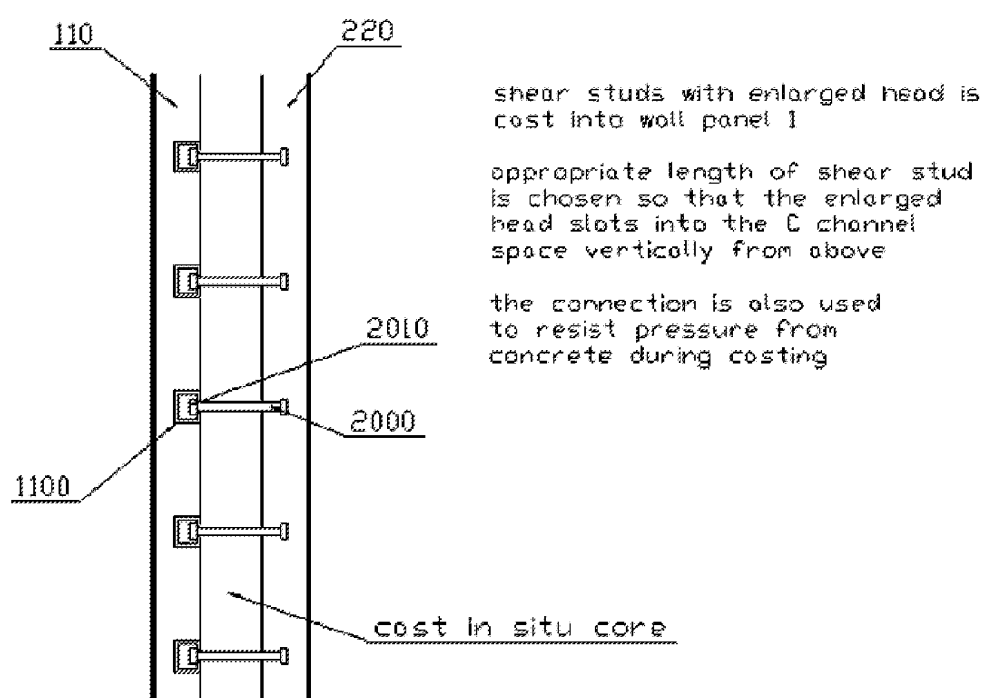
VIEW FROM TOP

FIG 16A



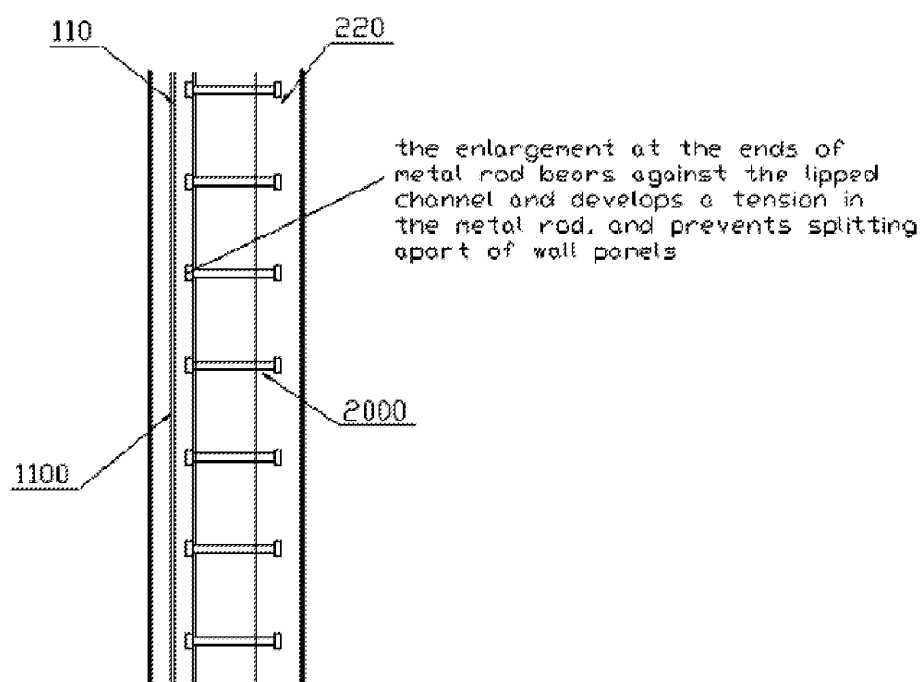
VIEW FROM SIDE

FIG 16B



VIEW FROM TOP

FIG 17A



VIEW FROM SIDE

FIG 17B

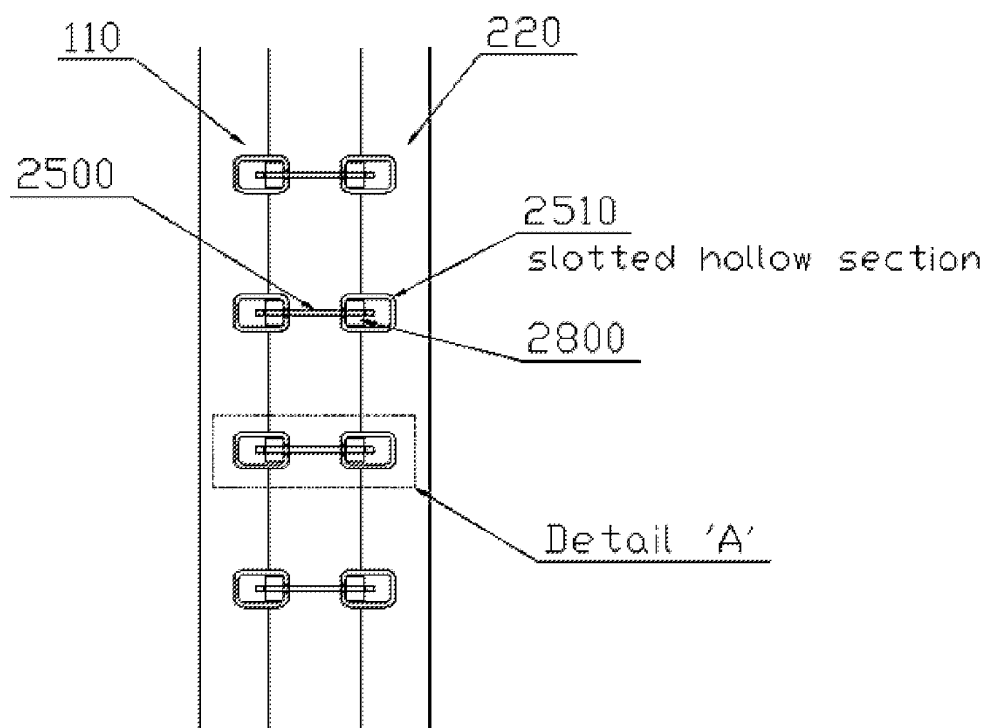


FIG. 18A

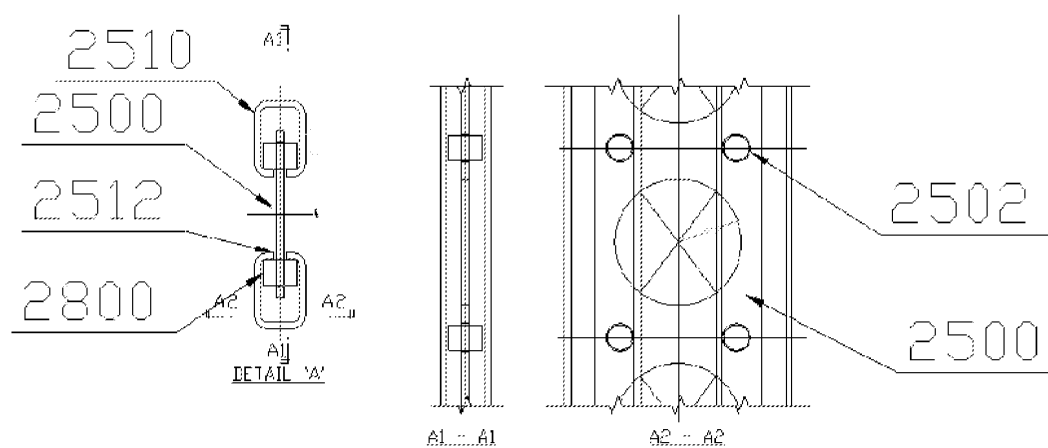


FIG. 18B