The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

This invention relates to a lightweight wall construction utilizing contiguous structural components bent to a predetermined configuration, and more particularly to an improved channel-type shell having capstrips at the joints between adjacent channels.

The invention is primarily concerned with the type of structure shown in Patent No. 2,943,442 which discloses a shell comprising a plurality of contiguous channels the operating temperatures as well as the corrosive action and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

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a ribbon encircling said assembly and adapted to define with said channel members a plurality of longitudinally extending passages for regenerative cooling, a plurality of elongated cap strips in engagement with the outer portions of said ribs for providing a greater bonding area between said ribbon and said assembly, each cap strip including a pair of opposed flanges for facewise contact with the inner surface of said ribbon, a pair of substantially parallel legs for facewise contact with the side walls of adjacent ribs, a deformable web between said flanges providing said cap strip with an initial configuration wherein said legs extend at a slight acute angle to each other and a final configuration wherein said legs lie in substantially parallel closely spaced planes, means rigidly securing said flanges to said closure means when said cap strip has said final configuration, and means rigidly securing said legs to said ribs when said cap strip has said final configuration.

2. A rocket motor casing as claimed in claim 1 wherein the flanges have substantially planar contact faces to achieve maximum bonding.

3. A rocket motor casing as claimed in claim 1 wherein the legs have substantially planar contact faces to achieve maximum bonding.

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