Summary

According to a first aspect of the present invention, there is provided a cover positionable surrounding an assembly joining pipe elements, said cover comprising:

a first cover portion defining a first recess for receiving said assembly, said first cover portion having a first sidewall defining a first channel and a second sidewall defining a second channel, said first and second channels being in communication with said first recess, said first and second channels for receiving said pipe elements;

a second cover portion defining a second recess for receiving said assembly, said second cover portion having a third sidewall defining a third channel and a fourth sidewall defining a fourth channel, said third and fourth channels being in communication with said second recess, said third and fourth channels for receiving said pipe elements;

a first perimeter face positioned on said first cover portion, said first perimeter face surrounding said first recess and said first and second channels;

a second perimeter face positioned on said second cover portion, said second perimeter face surrounding said second recess and said third and fourth channels, said second perimeter face being engageable with said first perimeter face for joining said first and said second cover portions to one another surrounding said assembly;

a first canal positioned in said first sidewall transversely to said first channel;

a second canal position in said second sidewall transversely to said second channel;

a third canal positioned in said third sidewall transversely to said third channel; and

a fourth canal positioned in said fourth sidewall transversely to said fourth channel,

wherein:

at least a first portion of said first perimeter face comprises a groove extending therealong;

at least a first portion of said second perimeter face comprises a tongue extending therefrom, said tongue of said first portion of said second perimeter face being received within said groove of said first portion of said first perimeter face when said first and second cover portions are joined to one another,

said tongue of said first portion of said second perimeter face comprises a surface oriented angularly with respect to said first perimeter face and thereby defining a furrow between said first and second cover portions, and

the cover further comprises a seal positioned within said canals and within said furrow, said seal completely surrounding said first and second recesses.

The invention concerns a cover positionable surrounding an assembly joining pipe elements. In one example embodiment the cover comprises a first cover portion defining a first recess for receiving the assembly. The first cover portion has a first sidewall defining a first channel and a second sidewall defining a second channel. The first and second channels are in communication with the first recess. The first and second channels receive the pipe elements. A second cover portion defines a second recess for receiving the assembly. The second cover portion has a third sidewall defining a third channel and a fourth sidewall defining a fourth channel. The third and fourth channels are in communication with the second recess. The third and fourth channels also receive the pipe

elements. A first perimeter face is positioned on the first cover portion. The first perimeter face surrounds the first recess and the first and second channels. A second perimeter face is positioned on the second cover portion. The second perimeter face surrounds the second recess and the third and fourth channels. The second perimeter face is engageable with the first perimeter face for joining the first and the second cover portions to one another surrounding the assembly. A first canal is positioned in the first sidewall transversely to the first channel. A second canal is position in the second sidewall transversely to the second channel. A third canal is positioned in the third sidewall transversely to the third channel. A fourth canal is positioned in the fourth sidewall transversely to the fourth channel.

By way of example, at least a first portion of the first perimeter face comprises a groove extending therealong. At least a first portion of the second perimeter face comprises a tongue extending therefrom. The tongue of the first portion of the second perimeter face is received within the groove of the first portion of the first perimeter face when the first and second cover portions are joined to one another. In an example embodiment the groove of the first portion of the first perimeter face is in fluid communication with the first and the third canals when the first and second cover portions are joined to one another. Further by way of example, at least a second portion of the first perimeter face comprises a tongue

What is claimed is:

1. A cover positionable surrounding an assembly joining pipe elements, said cover comprising:

a first cover portion defining a first recess for receiving said assembly, said first cover portion having a first sidewall defining a first channel and a second sidewall defining a second channel, said first and second channels being in communication with said first recess, said first and second channels for receiving said pipe elements;

a second cover portion defining a second recess for receiving said assembly, said second cover portion having a third sidewall defining a third channel and a fourth sidewall defining a fourth channel, said third and fourth channels being in communication with said second recess, said third and fourth channels for receiving said pipe elements;

a first perimeter face positioned on said first cover portion, said first perimeter face surrounding said first recess and said first and second channels;

a second perimeter face positioned on said second cover portion, said second perimeter face surrounding said second recess and said third and fourth channels, said second perimeter face being engageable with said first perimeter face for joining said first and said second cover portions to one another surrounding said assembly;

a first canal positioned in said first sidewall transversely to said first channel;

a second canal position in said second sidewall transversely to said second channel;

a third canal positioned in said third sidewall transversely to said third channel; and

a fourth canal positioned in said fourth sidewall transversely to said fourth channel,

wherein:

at least a first portion of said first perimeter face comprises a groove extending therealong;

at least a first portion of said second perimeter face comprises a tongue extending therefrom, said tongue of said first portion of said second perimeter face being received within said groove of said first portion of said first perimeter face when said first and second cover portions are joined to one another,

said tongue of said first portion of said second perimeter face comprises a surface oriented angularly with respect to said first perimeter face and thereby defining a furrow between said first and second cover portions, and

the cover further comprises a seal positioned within said canals and within said furrow, said seal completely surrounding said first and second recesses.

2. The cover according to claim 1, wherein said groove of said first portion of said first perimeter face is in fluid communication with said first and said third canals when said first and second cover portions are joined to one another.

3. The cover according to claim 1, wherein:

at least a second portion of said first perimeter face comprises a tongue extending therefrom;

at least a second portion of said second perimeter face comprises a groove extending therealong, said tongue of said second portion of said first perimeter face being received within said groove of said second portion of said

second perimeter face when said first and second cover portions are joined to one another.

4. The cover according to claim 3, wherein said groove of said second portion of said second perimeter face is in fluid communication with said second and said fourth canals when said first and second cover portions are joined to one another.

5. The cover according to claim 3, wherein said groove in said first portion of said first perimeter face is in fluid communication with said groove in said second portion of said second perimeter face when said first and second cover portions are joined to one another.

6. The cover according to claim 3, wherein said tongue of said second portion of said first perimeter face comprises a surface oriented angularly with respect to said second perimeter face and thereby defining a furrow between said first and second cover portions.

7. The cover according to claim 1, wherein:

said first perimeter face comprises first and second alignment cutouts;

said second perimeter face comprises first and second alignment blocks, said first and second alignment cutouts having a complementary shape to said first and second alignment blocks so that said first and second alignment blocks interlock with said first and second alignment cutouts when said first and second cover portions are joined to one another.

8. The cover according to claim 7, wherein:

said first perimeter face comprises third and fourth alignment blocks;

said second perimeter face comprises third and fourth alignment cutouts, said third and fourth alignment cutouts having a complementary shape to said third and fourth alignment blocks so that said third and fourth alignment blocks interlock with said third and fourth alignment cutouts when said first and second cover portions are joined to one another.

9. The cover according to claim 8, wherein said alignment blocks and said alignment cutouts are step-shaped.

10. The cover according to claim 1, further comprising an opening in said first and second cover portions, said opening being located along said first and second perimeter faces, a fifth canal on said first cover portion extending along said opening and a sixth canal extending along said second cover portion, said canals being in fluid communication with said furrow and receiving said seal.

11. The cover according to claim 1, wherein said seal is selected from the group consisting essentially of a continuous gasket, an extruded caulk, a rope caulk, and combinations thereof.

12. The cover according to claim 1, wherein said first and second cover portions comprise a foam layer.

13. The cover according to claim 12, wherein said foam layer has an insulation value of at least R=5 per inch of thickness.

14. The cover according to claim 12, wherein said foam layer comprises polyisocyanurate.

15. The cover according to claim 12, further comprising a coating of polyvinyldiene chloride on said foam layer.

16. The cover according to claim 12, further comprising an exterior coating surrounding said foam layer.

17. The cover according to claim 16, wherein said exterior coating is selected from the group consisting essentially of polyurea, polyvinylchloride, polyvinyldiene chloride and combinations thereof.

18. The cover according to claim 16, wherein said foam layer and said exterior coating achieve a rating of less than 25/50 per ASTM E84 test criterial for flame propagation and smoke.