

CLAIMS

1. A cement head, comprising:
 - a first module comprising a first end, a first outer surface, and a plurality of first protrusions extending radially outward from the first outer surface, each of the plurality of first protrusions comprising a first profile in which (i) a first engagement surface faces axially away from the first end and (ii) a first support surface forms a first oblique angle relative to an axis;
 - a first supplemental protrusion having a rectangular profile and extending radially outward from the first outer surface at a location between the first end and the plurality of first protrusions;
 - a second module comprising a second end axially adjacent the first end of the first module, a second outer surface, and a plurality of second protrusions extending radially outward from the second outer surface; and
 - a second supplemental protrusion having a rectangular profile and extending radially outward from the second outer surface at a location between the second end and the plurality of second protrusions; and
 - a bridge configured to engage the plurality of first protrusions, the first supplemental protrusion, the plurality of second protrusions, and the second supplemental protrusion,wherein the plurality of first protrusions comprises a first protrusion and a second protrusion disposed between the first protrusion and the plurality of second protrusions and having a maximum axial width greater than a maximum axial width of the first protrusion, and
wherein the second plurality of protrusions comprises a third protrusion and a fourth protrusion disposed between the third protrusion and the first plurality of protrusions and having a maximum axial width greater than a maximum axial width of the third protrusion.
2. The cement head of claim 1, wherein each of the plurality of second protrusions comprises a second profile in which (i) a second engagement surface

faces axially away from the second end and (ii) a second support surface forms a second oblique angle relative to the axis.

3. The cement head of claim 2, wherein the first engagement surface is perpendicular to the first outer surface and wherein the second engagement surface is perpendicular to the second outer surface.

4. The cement head of claim 2, wherein the first support surface is non-parallel to the second support surface.

5. The cement head of claim 1, wherein each of the plurality of first protrusions comprises a base at the first outer surface and a top surface disposed (i) axially between the first engagement surface and the first support surface and (ii) radially outward from the first outer surface.

6. The cement head of claim 5, wherein a maximum axial width of the base is greater than a maximum axial width of the top surface.

7. The cement head of claim 2, wherein the plurality of first protrusions extend annularly about at least a portion of a circumference of the first module and wherein the plurality of second protrusions extend annularly about at least a portion of a circumference of the second module.

8. A method, comprising:

aligning a first module along an axis, the first module comprising a first end and a plurality of first protrusions each having a first profile in which (i) a first engagement surface faces axially away from the first end and (ii) a first support surface forms a first oblique angle relative to the axis, the first module further comprising a first supplemental protrusion having a rectangular profile and being located between the first end and the plurality of first protrusions;

aligning a second module along the axis, the second module comprising a second end axially adjacent the first end and a plurality of second protrusions each having a second profile in which (i) a second

engagement surface faces axially away from the second end and
(ii) a second support surface forms a second oblique angle relative to the axis, the second module further comprising a second supplemental protrusion having a rectangular profile and being located between the second end and the plurality of second protrusions;

engaging a first complementary surface of a bridge with the first engagement surface and engaging a second complementary surface of the bridge with the second engagement surface;

receiving the first supplemental protrusion in a first recess defined on the bridge and receiving the second supplemental protrusion in a second recess defined on the bridge; and

transferring a load of the first module to the second module via the bridge,

wherein the plurality of first protrusions comprises a first protrusion and a second protrusion disposed between the first protrusion and the plurality of second protrusions and having a maximum axial width greater than a maximum axial width of the first protrusion, and

wherein the second plurality of protrusions comprises a third protrusion and a fourth protrusion disposed between the third protrusion and the first plurality of protrusions and having a maximum axial width greater than a maximum axial width of the third protrusion.

9. A cement head, comprising:

a first module comprising a first outer surface and a plurality of first protrusions extending radially outward from the first outer surface;

a first supplemental protrusion having a rectangular profile and extending radially outward from the first outer surface;

a second module alignable with the first module and comprising a second outer surface and a plurality of second protrusions extending radially outward from the second outer surface;

a second supplemental protrusion having a rectangular profile and extending radially outward from the second outer surface; and

a bridge comprising a plurality of inner protrusions configured to engage the pluralities of first and second protrusions and the first and second supplemental protrusions,
wherein one of the plurality of inner protrusions has a maximum axial width different from a maximum axial width of another of the plurality of inner protrusions,
wherein the plurality of first protrusions comprises a first protrusion and a second protrusion disposed between the first protrusion and the plurality of second protrusions and having a maximum axial width greater than a maximum axial width of the first protrusion, and
wherein the second plurality of protrusions comprises a third protrusion and a fourth protrusion disposed between the third protrusion and the first plurality of protrusions and having a maximum axial width greater than a maximum axial width of the third protrusion.

10. The cement head of claim 9,
wherein each of the plurality of first protrusions comprises a first profile in which a first engagement surface faces axially away from the second module and a first support surface forms an oblique angle relative to an axis, and
wherein each of the plurality of second protrusions comprises a second profile in which a second engagement surface faces axially away from the first module and a second support surface forms an oblique angle relative to the axis.

11. A method, comprising:
aligning a first module along an axis, the first module comprising a first outer surface and a plurality of first protrusions extending radially outward from the first outer surface, the first module further comprising a first supplemental protrusion having a rectangular profile and extending radially outward from the first outer surface;
aligning a second module along the axis adjacent the first module, the second module comprising a second outer surface and a plurality of second protrusions extending radially outward from the second

outer surface, the second module further comprising a second supplemental protrusion having a rectangular profile and extending radially outward from the second outer surface;

engaging a plurality of inner protrusions of a bridge with the pluralities of first and second protrusions and the first and second supplemental protrusions;

transferring a load of the first module to the second module via the bridge,

wherein the plurality of first protrusions comprises a first protrusion and a second protrusion disposed between the first protrusion and the plurality of second protrusions and having a maximum axial width greater than a maximum axial width of the first protrusion, and

wherein the second plurality of protrusions comprises a third protrusion and a fourth protrusion disposed between the third protrusion and the first plurality of protrusions and having a maximum axial width greater than a maximum axial width of the third protrusion.

12. The method of claim 11, wherein a portion of a total axial load received by one of the plurality of first protrusions is different from another portion of the total axial load received by another of the plurality of first protrusions.

13. The method of claim 8, wherein the first module comprises a first outer surface and the second module comprises a second outer surface, and wherein the first engagement surface is perpendicular to the first outer surface and the second engagement surface is perpendicular to the second outer surface.

14. The method of claim 8, wherein the first support surface is non-parallel to the second support surface.

15. The method of claim 11, wherein one of the plurality of inner protrusions has a maximum axial width different from a maximum axial width of another of the plurality of inner protrusions.