CLAIMS

What is claimed is:

1. A door assembly for accessing a blowout preventer of a wellsite, the blowout preventer for sealing about a tubular extending from a wellbore of the wellsite, the blowout preventer comprising a housing having a bore and a channel through the housing, the tubular positionable through the bore and engageable in the bore, the door assembly comprising:

a door slidably positionable along an axis of the channel and providing selective access to the channel; and

a lock carried by the door, the lock comprising upper and lower locking plates and vertical lock supports to secure the upper and lower locking plates about the door, the upper and lower locking plates having parallel transverse rows of raised housing teeth aligned axially with trenches between the transverse rows of raised housing teeth, each of the parallel transverse rows of raised housing teeth extending along the door in a direction transverse to the axis of the channel, the transverse rows of raised housing teeth extendable into corresponding transverse rows of receptacles of the housing and movable along the corresponding transverse rows of receptacles between an unlocked and a locked position whereby the door assembly is selectively retractable from the housing.

2. The door assembly of Claim 1, wherein the upper and lower locking plates have transverse rows of raised door teeth on opposite sides of the upper and lower locking plates from the transverse rows of raised housing teeth, the transverse rows of raised door teeth being engageable with the door, the transverse rows of raised housing teeth being engageable with the housing.

3. The door assembly of Claim 2, wherein the housing has a plurality of teeth engageable with the transverse rows of raised housing teeth.

4. The door assembly of Claim 2, wherein the transverse rows of raised housing and door teeth have one of a polygonal shape, triangular shape, trapezoidal shape, a round shape and combinations thereof.

5. The door assembly of Claim 2, wherein the transverse rows of raised housing and door teeth are at an acute angle to the axis of the channel.

6. The door assembly of Claim 2, wherein the transverse rows of raised housing and door teeth are distributed in discrete rows.

~~7. The door assembly of Claim 6, wherein the discrete rows have trenches therebetween.~~

~~8.~~7. The door assembly of Claim ~~7~~6, wherein ~~is~~ the upper and lower locking plates are slidably movable between the locked position with the transverse rows of raised housing teeth in non-alignment with the trenches ~~of the~~

~~plurality of teeth of the housing~~ between the transverse rows of raised housing teeth and the unlocked position with the transverse rows of raised housing teeth in alignment with the trenches ~~of the plurality of teeth of the housing~~between the transverse rows of raised housing teeth.

~~9.~~8. The door assembly of Claim 6, wherein a number of the ~~plurality of~~raised housing teeth of the ~~housing~~ upper and lower locking plates and a number of the ~~raised housing~~door teeth of the upper and lower locking plates are the same.

~~10.~~9. The door assembly of Claim 6, wherein a number of the raised housing teeth of the ~~locking member~~upper and lower locking plates and a number of the ~~plurality of~~door teeth of the ~~housing~~ upper and lower locking plates are ~~the~~ different.

~~11.~~10. The door assembly of Claim 1, wherein the upper and lower locking plates are on opposite sides of the door.

~~12.~~11. The door assembly of Claim ~~11~~10, wherein the lock further comprises a pair of the vertical lock supports operatively connecting the upper and lower locking plates about the door assembly.

~~13.~~12. The door assembly of Claim 1, wherein the upper and lower locking plates comprises a locking ball.

~~14.~~13. A blowout preventer for sealing about a tubular extending from a wellbore of a wellsite, the blowout preventer comprising:

a housing having a bore and a channel through the housing, the tubular positionable through the bore and engageable in the bore; and

a door assembly positionable about an opening of the channel of the housing, the door assembly comprising:

a door slidably positionable along an axis of the channel and providing selective access to the channel; and

a lock carried by the door, the lock comprising upper and lower locking plates and vertical lock supports to secure the upper and lower locking plates about the door, the upper and lower locking plates having parallel transverse rows of raised housing teeth aligned axially with trenches between the transverse rows of raised housing teeth, each of the parallel transverse rows of raised housing teeth extending along the door in a direction transverse to the axis of the channel, the transverse rows of raised housing teeth extendable into corresponding transverse rows of receptacles of the housing and movable along the corresponding transverse

rows of receptacles between an unlocked and a locked position whereby the door assembly is selectively retractable from the housing.

~~15.~~14. The blowout preventer of Claim ~~14~~13, further comprising a ram block with a ram shaft extended therefrom through the door assembly and into a ram cylinder, the ram block slidably movable through the channel of the housing and sealingly engageable with the tubular.

~~16.~~15. The blowout preventer of Claim ~~15~~14, further comprising an actuator operatively connectable to the ram cylinder.

~~17.~~16. A method of accessing a blowout preventer of a wellsite, the blowout preventer for sealing about a tubular extending from a wellbore of the wellsite, the blowout preventer comprising a housing having a bore and a channel through the housing, the tubular positionable through the bore and engageable in the bore, the method comprising:

providing a door assembly about the blowout preventer, the door assembly comprising:

a door slidably positionable along an axis of the channel and providing selective access to the channel; and

a lock carried by the door, the lock comprising upper and lower locking plates and vertical lock supports to secure the upper and lower locking plates about the door, the upper and lower locking plates having parallel transverse rows of raised housing teeth aligned axially with trenches between the transverse rows of raised housing teeth, each of the parallel transverse rows of raised housing teeth extending along the door in a direction transverse to the axis of the channel, the transverse rows of raised housing teeth extendable into corresponding transverse rows of receptacles of the housing and movable along the corresponding transverse rows of receptacles between an unlocked and a locked position;

selectively retracting the door assembly from the housing by movably positioning the transverse rows of raised housing teeth along the at least one corresponding receptacle of the housing between the locked and unlocked position.

~~18.~~17. The method of Claim ~~17~~16, ~~wherein the transverse rows of raised housing teeth comprises a plurality of teeth and~~ wherein the selectively retracting comprises slidably moving the ~~plurality of~~transverse rows of raised housing teeth between the locked position in non-alignment with trenches ~~of the plurality of teeth of the housing~~between the transverse rows of raised housing teeth and the unlocked position in alignment with the trenches between the transverse rows of raised housing teeth.

~~19.~~18. The method of Claim ~~17~~16, further comprising slidably positioning a ram assembly in the channel of the housing, the ram assembly comprising a ram block with a ram shaft extended therefrom through the door assembly and into a ram cylinder, the method further comprising accessing the ram assembly by retracting the door assembly.

~~20.~~19. The method of Claim ~~19~~18, further comprising slidingly moving the ram block through the channel of the housing and in sealing engagement with the tubular.