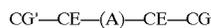


## 31

24. The hydrogel system of claim 22 wherein at least one of the components has the structure:



wherein,

(A) is a di or multifunctional substantially water soluble polymeric backbone;

CG and CG' are active crosslinking or leaving group portions; and

(---CE---) is an optional chain extending segment.

25. The hydrogel system of claim 22 wherein the reactive functional groups CG and CG' are different.

26. The hydrogel system of claim 22 wherein at least one optional chain extending segment CE is interposed between two chemical crosslinks and is degradable.

27. The system of claim 22 wherein the first component is a thermoreversible polymer.

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28. The system of claim 22 wherein the first component comprises poly(oxyethylene)-poly(oxypropylene) block copolymer and the second component comprises N-hydroxy succinamide ester on the second polymer that is covalently linkable by the N-hydroxy succinamide ester to a third polymer having at least one nucleophilic group.

29. The system of claim 22 further comprising at least one color indicator substance.

30. The system of claim 29 wherein the color indicator substance is chosen from the group consisting of phenol red, thymol blue, furoxone, rivanol, or picric acid.

31. The system of claim 29 wherein the color indicator substance is blue, yellow, or green.

32. The system of claim 29 wherein the color indicator substance is a first color when the system is stored and a second color when the system is disposed in situ.

\* \* \* \* \*