WHAT IS CLAIMED IS:

1. A decoder, the decoder comprising circuitry configured to:

receive a bitstream including a coded picture, the coded picture including a first region having global motion and comprising a first contiguous plurality of coding units and a second region having local motion different from the global motion and comprising a second contiguous plurality of coding units, the first plurality of coding units all having the same affine motion model;

construct, for each of the coding units in the first plurality of coding units, a motion vector candidate list, each motion vector candidate list comprising one or more motion vector candidates generated using motion vector information of a neighboring coding unit;

decode the first plurality of coding units of the first region using a selected one of the motion vector candidates from the coding unit's motion vector candidate list, the selected motion vector candidate being a candidate generated using motion vector information of a neighboring coding unit, wherein the affine motion model is a 6-parameter affine motion model characterizable by the parameters a, b, c, d, e, and f where

$$x' = ax + by + c$$

$$y' = dx + ey + f$$

(x,y) is a pixel location in the first region of the coded picture and (x', y') is a pixel location in a reference picture, wherein each selected motion vector candidate comprises three control point motion vectors, and wherein the selected motion vector candidates implement a, b, c, d, e, and f with substantially the same values in all of the coding units of the first region, whereby the global motion is reconstructed; and

decode the coding units in the second plurality of coding units s, whereby local motion is reconstructed.

2. The decoder of claim 1, wherein the first plurality of coding units comprises a coding tree unit.

3. The decoder of claim 1, wherein the global motion model is signaled by a header of the bitstream, the header including a sequence parameter set.

4. The decoder of claim 1 configured to ascertain, from the bitstream, individually determined motion vectors for each coding unit of the second plurality of coding units, adjacent coding units in the second plurality of coding units having different individually determined motion vectors.

5. The decoder of claim 1, wherein the first region and the second region comprise the entire picture.

6. A decoder configured to:

receive a bitstream including a coded picture, the coded picture including a first region having global motion and comprising a first contiguous plurality of coding units and a second region having local motion different from the global motion and comprising a second contiguous plurality of coding units, the first plurality of coding units all having the same affine motion model;

construct, for each of the coding units in the first plurality of coding units, a motion vector candidate list, each motion vector candidate list comprising one or more motion vector candidates generated using motion vector information of a neighboring coding unit;

decode each of the first plurality of coding units of the first region using a selected one of the motion vector candidates from the coding unit's motion vector candidate list, the selected motion vector candidate being a candidate generated using motion vector information of a neighboring coding unit, wherein the affine motion model is a 4- parameter affine motion model characterizable by the parameters a, b, c, and f where

$$x' = ax + by + c$$

$$y' = - bx + ay + f$$

(x,y) is a pixel location in the first region of the coded picture and (x',y') is a pixel location in a reference picture, wherein each selected motion vector candidate comprises two control point motion vectors, and wherein the selected motion vector candidates implement a, b, c, and f with substantially the same values in all of the coding units of the first region, whereby

the global motion in the first region is reconstructed; and

decode the coding units in the second plurality of coding units, whereby the local motion is reconstructed.

7. The decoder of claim 6 configured to ascertain, from the bitstream, individually determined motion vectors for each coding unit of the second plurality of coding units, adjacent coding units in the second plurality of coding units having different individually determined motion vectors.

8. The decoder of claim 6, wherein the first region and the second region comprise the entire picture.