

Claim Element	Claim Language from '689 Patent
1[pre]	An aggregate transferring apparatus for elevating and transferring aggregate, the apparatus comprising:
1[a]	a base assembly for receiving aggregate to be conveyed by the transferring apparatus, the base assembly comprising:
1[b]	a base frame being elongated along a longitudinal axis and having a leading end and a trailing end;
1[c]	an unloader structure mounted on the base frame to receive aggregate from a vehicle at least partially positioned over the base frame; and
1[d]	a base conveyor mounted on the base frame and extending along a longitudinal portion of the base frame between the leading and trailing ends of the base frame, a portion of the base conveyor being positioned adjacent to the unloader structure to receive aggregate from the vehicle positioned over the base frame;
1[e]	an aggregate elevating assembly for elevating aggregate from the base assembly, the aggregate elevating assembly comprising:
1[f]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position, the storage position corresponding to a transport configuration of the apparatus and the deploy position corresponding to an operational configuration of the apparatus, the deployable frame being elongated with a base end and a free end; and
1[g]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward the free end of the deployable frame; and
1[h]	a conveyor extension assembly for conveying aggregate to locations horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:

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1[i]	an extension conveyor for moving aggregate from an inlet of the extension conveyor to an outlet of the extension conveyor at a location outward from the aggregate elevating assembly, the extension conveyor being movable with respect to the aggregate elevating assembly between a lowered position corresponding to the transport configuration of the apparatus and a raised position corresponding to the operational configuration of the apparatus, the lowered position being characterized by the extension conveyor being positioned adjacent to the deployable frame of the aggregate elevating assembly, the raised position being characterized by the extension conveyor being positioned generally away from the deployable frame of the aggregate elevating assembly,
1[j]	wherein the extension conveyor is articulated between the inlet and outlet with an inboard segment and an outboard segment, the inboard segment being pivotally connected to the deployable frame of the aggregate elevating assembly by an inboard pivot, the outboard segment being pivotally connected to the inboard segment by an outboard pivot; and
1[k]	wherein the inboard segment of the extension conveyor of the conveyor extension assembly is pivotable at the inboard pivot about a substantially vertical axis with respect to the deployable frame at the inboard pivot when the extension conveyor is in the raised position, the outboard segment of the extension conveyor being pivotable at the outboard pivot about a substantially vertical axis with respect to the inboard segment when the extension conveyor is in the raised position.
2	The apparatus of claim 1 wherein the base assembly has at least one axle and a pair of wheels mounted on the at least one axle such that the base assembly is transportable across the ground surface.
3	The apparatus of claim 2 wherein the aggregate elevating assembly includes trailer structure configured to permit the apparatus to be towed across a ground surface, the trailer structure being positioned adjacent to the ground surface when the deployable frame is in the storage position.

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4	The apparatus of claim 1 wherein the lowered position of the extension conveyor of the conveyor extension assembly is characterized by the extension conveyor being oriented substantially parallel to the deployable frame of the aggregate elevating assembly, the raised position of the extension conveyor being characterized by the extension conveyor being oriented substantially perpendicular to the deployable frame of the aggregate elevating assembly.
5	The apparatus of claim 1 wherein the raised position of the extension conveyor of the conveyor extension assembly is characterized by the extension conveyor being cantilevered outwardly from the deployable frame of the aggregate elevating assembly.
6[pre]	The apparatus of claim 1 wherein the conveyor extension assembly additionally comprises:
6[a]	a conveyor support frame supporting the segments of the extension conveyor on the aggregate elevating assembly, the conveyor support frame being movable with respect to the deployable frame of the aggregate elevating assembly when the extension conveyor moves between the lowered position and the raised position; and
6[b]	an extension conveyor lift structure acting on the conveyor support frame for moving the extension conveyor between the lowered position and the raised position.
7	The apparatus of claim 1 wherein the extension conveyor lift structure comprises at least one extension actuator extendable to pivot the conveyor support frame away from the deployable frame and move the extension conveyor to the raised position, the at least one extension actuator being retractable to pivot the conveyor support frame toward the deployable frame and move the extension conveyor to the lowered position.
8	The apparatus of claim 1 wherein the conveyor extension assembly includes a chute mounted on the extension conveyor to extend downward from the

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	extension conveyor and receive aggregate from the outlet of the extension conveyor.
9	The apparatus of claim 1 wherein the base assembly includes an outrigger structure mounted on the base frame, the outrigger structure being movable with respect to the base frame between a stabilizing condition corresponding to an operational configuration of the apparatus and a non-stabilizing condition corresponding to a transport configuration of the apparatus.
10	The apparatus of claim 1 wherein the unloader structure includes a pair of ramps and a grate mounted on the base frame, the grate being positioned between the pair of ramps, at least a portion of the grate being reticulated to permit aggregate to pass through the grate and fall onto the base conveyor.
11	The apparatus of claim 10 wherein each of the ramps of the unloader structure is pivotable with respect to the base frame, the ramps extending laterally in substantially horizontal and opposite directions from the base frame in the operational condition of the apparatus, the ramps extending substantially vertical and parallel to each other in the transport condition of the apparatus.
12[pre]	An aggregate transferring apparatus for elevating and transferring aggregate, the apparatus comprising:
12[a]	a base assembly for receiving aggregate to be conveyed by the transferring apparatus, the base assembly comprising:
12[b]	a base frame being elongated along a longitudinal axis and having a leading end and a trailing end;
12[c]	an unloader structure mounted on the base frame to receive aggregate from a vehicle at least partially positioned over the base frame; and
12[d]	a base conveyor mounted on the base frame and extending along a longitudinal portion of the base frame between the leading and trailing ends

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	of the base frame, a portion of the base conveyor being positioned adjacent to the unloader structure to receive aggregate from the vehicle positioned over the base frame;
12[e]	an aggregate elevating assembly for elevating aggregate from the base assembly, the aggregate elevating assembly comprising:
12[f]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position, the storage position corresponding to a transport configuration of the apparatus and the deploy position corresponding to an operational configuration of the apparatus, the deployable frame being elongated with a base end and a free end; and
12[g]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward the free end of the deployable frame; and
12[h]	a conveyor extension assembly for conveying aggregate to locations horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
12[i]	an extension conveyor for moving aggregate from an inlet of the extension conveyor to an outlet of the extension conveyor at a location outward from the aggregate elevating assembly, the extension conveyor being movable with respect to the aggregate elevating assembly between a lowered position corresponding to the transport configuration of the apparatus and a raised position corresponding to the operational configuration of the apparatus, the lowered position being characterized by the extension conveyor being positioned adjacent to the deployable frame of the aggregate elevating assembly, the raised position being characterized by the extension conveyor being positioned generally away from the deployable frame of the aggregate elevating assembly; and
12[j]	wherein the extension conveyor is articulated between the inlet and outlet with an inboard segment and an outboard segment, the inboard segment being pivotally connected to the deployable frame of the aggregate

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	elevating assembly by an inboard pivot, the outboard segment being pivotally connected to the inboard segment by an outboard pivot;
12[k]	wherein the base assembly has at least one axle and a pair of wheels mounted on the at least one axle such that the base assembly is transportable across the ground surface;
12[l]	wherein the aggregate elevating assembly includes trailer structure configured to permit the apparatus to be towed across a ground surface, the trailer structure being positioned adjacent to the ground surface when the deployable frame is in the storage position;
12[m]	wherein the trailer structure comprises: at least one landing leg mounted on the deployable frame to rest upon the ground surface when the deployable frame is in the storage position; and
12[n]	a kingpin mounted on the deployable frame toward the free end of the deployable frame, the kingpin being directed in a same direction as the at least one landing leg to engage a hitch of a towing vehicle when the deployable frame is in the storage position.
13[pre]	An aggregate transferring apparatus for elevating and transferring aggregate, the apparatus comprising:
13[a]	a base assembly for receiving aggregate to be conveyed by the transferring apparatus, the base assembly comprising:
13[b]	a base frame being elongated along a longitudinal axis and having a leading end and a trailing end;
13[c]	an unloader structure mounted on the base frame to receive aggregate from a vehicle at least partially positioned over the base frame; and
13[d]	a base conveyor mounted on the base frame and extending along a longitudinal portion of the base frame between the leading and trailing ends of the base frame, a portion of the base conveyor being positioned adjacent

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	to the unloader structure to receive aggregate from the vehicle positioned over the base frame;
13[e]	an aggregate elevating assembly for elevating aggregate from the base assembly, the aggregate elevating assembly comprising:
13[f]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position, the storage position corresponding to a transport configuration of the apparatus and the deploy position corresponding to an operational configuration of the apparatus, the deployable frame being elongated with a base end and a free end; and
13[g]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward the free end of the deployable frame; and
13[h]	a conveyor extension assembly for conveying aggregate to locations horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
13[i]	an extension conveyor for moving aggregate from an inlet of the extension conveyor to an outlet of the extension conveyor at a location outward from the aggregate elevating assembly, the extension conveyor being movable with respect to the aggregate elevating assembly between a lowered position corresponding to the transport configuration of the apparatus and a raised position corresponding to the operational configuration of the apparatus, the lowered position being characterized by the extension conveyor being positioned adjacent to the deployable frame of the aggregate elevating assembly, the raised position being characterized by the extension conveyor being positioned generally away from the deployable frame of the aggregate elevating assembly,
13[j]	wherein the extension conveyor is articulated between the inlet and outlet with an inboard segment and an outboard segment, the inboard segment being pivotally connected to the deployable frame of the aggregate

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	elevating assembly by an inboard pivot, the outboard segment being pivotally connected to the inboard segment by an outboard pivot; and
13[k]	wherein the aggregate elevating assembly includes a frame deployment assembly configured to move the deployable frame with respect to the base frame between the storage and deploy positions, the frame deployment structure comprising:
13[l]	at least one lift arm structure mounted on the base frame and the deployable frame and forming a linkage between the base frame and the deployable frame, the at least one lift arm structure being articulated between opposite first and second ends of the arm structure; and
13[m]	an actuator mounted on the base frame and the at least one lift arm structure to move the at least one lift arm structure with respect to the base frame.
14	The apparatus of claim 13 wherein the at least one lift arm structure comprising a pair of the lift arm structures mounted on the base frame and the deployable frame, the pair of lift arm structures being located on opposite lateral sides of the deployable frame.
15[a]	The apparatus of claim 13 wherein the at least one lift arm structure comprises a first link member and a second link member pivotally mounted together; and
15[b]	wherein the actuator of the frame deployment assembly is mounted on a base mount point on the base frame and a medial mount point on the second link member.
16[pre]	An aggregate transferring apparatus for elevating and transferring aggregate, the apparatus comprising:
16[a]	a base assembly for receiving aggregate to be conveyed by the transferring apparatus, the base assembly comprising:

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16[b]	a base frame being elongated along a longitudinal axis and having a leading end and a trailing end;
16[c]	an unloader structure mounted on the base frame to receive aggregate from a vehicle at least partially positioned over the base frame; and
16[d]	a base conveyor mounted on the base frame and extending along a longitudinal portion of the base frame between the leading and trailing ends of the base frame, a portion of the base conveyor being positioned adjacent to the unloader structure to receive aggregate from the vehicle positioned over the base frame;
16[e]	an aggregate elevating assembly for elevating aggregate from the base assembly, the aggregate elevating assembly comprising:
16[f]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position, the storage position corresponding to a transport configuration of the apparatus and the deploy position corresponding to an operational configuration of the apparatus, the deployable frame being elongated with a base end and a free end; and
16[g]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward the free end of the deployable frame; and
16[h]	a conveyor extension assembly for conveying aggregate to locations horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
16[i]	an extension conveyor for moving aggregate from an inlet of the extension conveyor to an outlet of the extension conveyor at a location outward from the aggregate elevating assembly, the extension conveyor being movable with respect to the aggregate elevating assembly between a lowered position corresponding to the transport configuration of the apparatus and a raised position corresponding to the operational configuration of the apparatus, the lowered position being characterized by the extension conveyor being

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	positioned adjacent to the deployable frame of the aggregate elevating assembly, the raised position being characterized by the extension conveyor being positioned generally away from the deployable frame of the aggregate elevating assembly;
16[j]	wherein the extension conveyor is articulated between the inlet and outlet with an inboard segment and an outboard segment, the inboard segment being pivotally connected to the deployable frame of the aggregate elevating assembly by an inboard pivot, the outboard segment being pivotally connected to the inboard segment by an outboard pivot; and
16[k]	wherein the outboard pivot of the extension conveyor of the conveyor extension assembly is configured to permit transfer of aggregate from the inboard segment to the outboard segment.
17	The apparatus of claim 16 wherein the inboard segment of the extension conveyor of the conveyor extension assembly is pivotable at the inboard pivot about a substantially vertical axis with respect to the deployable frame at the inboard pivot when the extension conveyor is in the raised position, the outboard segment of the extension conveyor being pivotable at the outboard pivot about a substantially vertical axis with respect to the inboard segment when the extension conveyor is in the raised position.
18[pre]	An aggregate transferring apparatus for elevating and transferring aggregate to elevated locations above a ground surface, the apparatus comprising:
18[a]	a base assembly configured to receive aggregate to be conveyed by the transferring apparatus, the base assembly including:
18[b]	an elongated base frame; and
18[c]	a base conveyor extending longitudinally of the base frame;
18[d]	an aggregate elevating assembly configured to elevate aggregate from the base conveyor of the base assembly, the aggregate elevating assembly including:

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18[e]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position; and
18[f]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward a free end of the deployable frame; and
18[g]	a conveyor extension assembly configured to convey aggregate to locations elevated from the ground surface and horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
18[h]	an extension conveyor for moving aggregate from an inlet of the extension conveyor at the aggregate elevating assembly to an outlet of the extension conveyor at a location outward from the elevating assembly;
18[i]	wherein the extension conveyor includes an inboard segment and an outboard segment, the inboard and outboard segments being articulated between the inlet and outlet such that the inboard and outboard segments are pivotable with respect to each other and with respect to the aggregate elevating assembly about substantially vertical axes to permit adjustment of a position of the outlet with respect to the aggregate elevating assembly; and
18[j]	wherein the inboard and outboard segments of the extension conveyor are pivotable with respect to each other in a substantially horizontal operational plane.
19	The apparatus of claim 18 wherein the extension conveyor is movable with respect to the aggregate elevating assembly between a lowered position corresponding to the transport configuration of the apparatus and a raised position corresponding to the operational configuration of the apparatus for movement of the inboard and outboard segments in a substantially horizontal operational plane.
20	The apparatus of claim 18 wherein the inboard segment of the extension conveyor is pivotable with respect to the aggregate elevating assembly at an inboard pivot, the outboard segment of the extension conveyor being

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	pivotable with respect to the inboard segment at an outboard pivot spaced from the elevating assembly by the inboard segment.
21	The apparatus of claim 18 wherein the aggregate elevating assembly includes trailer structure configured to permit the apparatus to be towed across a ground surface, the trailer structure being positioned adjacent to the ground surface when the deployable frame is in the storage position.
22[pre]	An aggregate transferring apparatus for elevating and transferring aggregate to elevated locations above a ground surface, the apparatus comprising:
22[a]	a base assembly configured to receive aggregate to be conveyed by the transferring apparatus, the base assembly including:
22[b]	an elongated base frame; and
22[c]	a base conveyor extending longitudinally of the base frame;
22[d]	an aggregate elevating assembly configured to elevate aggregate from the base conveyor of the base assembly, the aggregate elevating assembly including:
22[e]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position; and
22[f]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward a free end of the deployable frame; and
22[g]	a conveyor extension assembly configured to convey aggregate to locations elevated from the ground surface and horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
22[h]	an extension conveyor for moving aggregate from an inlet of the extension conveyor at the aggregate elevating assembly to an outlet of the extension conveyor at a location outward from the elevating assembly;

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22[i]	wherein the extension conveyor includes an inboard segment and an outboard segment, the inboard and outboard segments being articulated between the inlet and outlet such that the inboard and outboard segments are pivotable with respect to each other and with respect to the aggregate elevating assembly about substantially vertical axes to permit adjustment of a position of the outlet with respect to the aggregate elevating assembly;
22[j]	wherein the inboard segment of the extension conveyor is pivotable with respect to the aggregate elevating assembly at an inboard pivot, the outboard segment of the extension conveyor being pivotable with respect to the inboard segment at an outboard pivot spaced from the elevating assembly by the inboard segment; and
22[k]	wherein the inboard segment of the extension conveyor of the conveyor extension assembly is pivotable at the inboard pivot about a substantially vertical axis with respect to the deployable frame at the inboard pivot when the extension conveyor is in the raised position, the outboard segment of the extension conveyor being pivotable at the outboard pivot about a substantially vertical axis with respect to the inboard segment when the extension conveyor is in the raised position.
23[pre]	An aggregate transferring apparatus for elevating and transferring aggregate to elevated locations above a ground surface, the apparatus comprising:
23[a]	a base assembly configured to receive aggregate to be conveyed by the transferring apparatus, the base assembly including:
23[b]	an elongated base frame; and
23[c]	a base conveyor extending longitudinally of the base frame;
23[d]	an aggregate elevating assembly configured to elevate aggregate from the base conveyor of the base assembly, the aggregate elevating assembly including:

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23[e]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position; and
23[f]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward a free end of the deployable frame; and
23[g]	a conveyor extension assembly configured to convey aggregate to locations elevated from the ground surface and horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
23[h]	an extension conveyor for moving aggregate from an inlet of the extension conveyor at the aggregate elevating assembly to an outlet of the extension conveyor at a location outward from the elevating assembly;
23[i]	wherein the extension conveyor includes an inboard segment and an outboard segment, the inboard and outboard segments being articulated between the inlet and outlet such that the inboard and outboard segments are pivotable with respect to each other and with respect to the aggregate elevating assembly about substantially vertical axes to permit adjustment of a position of the outlet with respect to the aggregate elevating assembly;
23[j]	wherein the inboard segment of the extension conveyor is pivotable with respect to the aggregate elevating assembly at an inboard pivot, the outboard segment of the extension conveyor being pivotable with respect to the inboard segment at an outboard pivot spaced from the elevating assembly by the inboard segment; and
23[k]	wherein the outboard pivot of the extension conveyor of the conveyor extension assembly is configured to permit transfer of aggregate from the inboard segment to the outboard segment.
24	The apparatus of claim 23 wherein the inboard and outboard segments of the extension conveyor are pivotable with respect to each other in a substantially horizontal operational plane.

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25[pre]	An aggregate transferring apparatus for elevating and transferring aggregate to elevated locations above a ground surface, the apparatus comprising:
25[a]	a base assembly configured to receive aggregate to be conveyed by the transferring apparatus, the base assembly including:
25[b]	an elongated base frame; and
25[c]	a base conveyor extending longitudinally of the base frame;
25[d]	an aggregate elevating assembly configured to elevate aggregate from the base conveyor of the base assembly, the aggregate elevating assembly including:
25[e]	a deployable frame mounted on the base frame and being movable between a storage position and a deploy position; and
25[f]	an elevating conveyor configured to receive aggregate from the base conveyor and convey the aggregate upwardly from the base assembly toward a free end of the deployable frame; and
25[g]	a conveyor extension assembly configured to convey aggregate to locations elevated from the ground surface and horizontally outward from the aggregate elevating assembly, the conveyor extension assembly comprising:
25[h]	an extension conveyor for moving aggregate from an inlet of the extension conveyor at the aggregate elevating assembly to an outlet of the extension conveyor at a location outward from the elevating assembly;
25[i]	wherein the extension conveyor includes an inboard segment and an outboard segment, the inboard and outboard segments being articulated between the inlet and outlet such that the inboard and outboard segments are pivotable with respect to each other and with respect to the aggregate elevating assembly about substantially vertical axes to permit adjustment of a position of the outlet with respect to the aggregate elevating assembly;

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25[j]	wherein the aggregate elevating assembly includes trailer structure configured to permit the apparatus to be towed across a ground surface, the trailer structure being positioned adjacent to the ground surface when the deployable frame is in the storage position; and
25[k]	wherein the trailer structure comprises: at least one landing leg mounted on the deployable frame to rest upon the ground surface when the deployable frame is in the storage position; and
25[l]	a kingpin mounted on the deployable frame toward a free end of the deployable frame, the kingpin being directed in a same direction as the at least one landing leg to engage a hitch of a towing vehicle when the deployable frame is in the storage position.