We claim:

1. A moisture and dust removing louver pack for being placed in an air passageway and for removing moisture and dust from airflow flowing through the air passageway, said moisture and dust removing louver pack comprising:

a louver support structure for supporting louvers for pivotal movement in the air passageway;

a set of louvers supported in said louver support structure in the air passageway for pivotal movement between a closed position for closing and sealing the air passageway to obstruct the flow of air through the air passageway and an open position for allowing the flow of air through the air passageway, said set of louvers including at least two entire louvers, said at least two entire louvers each comprising:

a louver body having an airfoil configuration enabling airflow across said at least two entire louvers as a generally laminar flow when said set of louvers is in an open position, wherein said airfoil configuration of said louver body of respective entire louvers is generally smooth enough to transfer air passing over said airfoil configuration as laminar flow, and wherein said louver body of respective entire louvers comprises:

a leading end;

a trailing end;

an intermediate portion between said leading end and said trailing end;

a convex surface extending between said lending end and said trailing end, said convex surface having a convex lending surface extending between said leading end and said intermediate portion and a convex trailing surface extending between said intermediate portion and said trailing end;

a concave surface extending between said leading end and said trailing end, said concave surface having a concave leading surface extending between at least one fulcrum location located at said intermediate portion; and

at least one pivoting location for receiving a force to effect the pivoting of each of said respective entire louvers between the closed position and an open position about said at least one fulcrum location;

a moisture and dust removing structure for removing moisture and dust from air flowing past each of said respective entire louvers~~;~~ wherein said moisture and dust removing structure comprised a protrusion extending from said airfoil configuration, said protrusion being a continuation of the airfoil configuration of said louver body;

and

a louver pivoting structure for enabling the pivoting of said at least two entire louvers between the closed position and an open position; and

a movable support mechanism for selectively applying force to said louver pivoting structure for pivoting said at least two entire louvers between the closed position and an open position.

2. A moisture and dust removing louver pack according to claim 1 wherein said ~~louver body of respective entire louvers further comprises:~~

~~a convex surface extending between said leading end and said trailing end, said convex surface having a convex leading surface extending between said leading~~

~~end and said intermediate portion and a convex trailing surface extending between said intermediate portion and said trailing end; and~~

~~a concave surface extending between said leading end and said trailing end, said concave surface having a concave leading surface extending between said leading end and said intermediate portion and a concave trailing surface extending between said intermediate portion and said trailing end.~~ at least one pivoting location is located proximate said leading end of said louver.

3. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein said at least one pivoting location is located ~~proximate said leading end of said louver.~~ in proximate to one of the said leading end and said trailing end of said respective entire louvers.

4. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein said at least one pivoting location is located in proximity to one of said leading end and said trailing end of said respective entire louvers.

5. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein said moisture and dust removing structure is located at said intermediate portion.

6. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein said moisture and dust removing structure is located on said concave surface at said intermediate portion, said moisture and dust removing structures of adjacent louvers contacting each other in an air-sealing engagement when said set of louvers is in the closed position to seal said louver pack against airflow therethrough.

~~7. A moisture and dust removing louver pack according to claim 1 wherein said airfoil configuration of said louver body of respective entire louvers is generally smooth enough to transfer air passing over said airfoil configuration as laminar flow, and said moisture and dust removing structure comprises a protrusion extending from said airfoil configuration, said protrusion being a continuation of the airfoil configuration of said louver body.~~

~~8.~~ 7. A moisture and dust removing louver pack according to claim ~~8~~ 1 wherein said protrusion is a moisture-separation hook.

~~9.~~ 8. A moisture and dust removing louver pack according to claim ~~9~~ 7 wherein said moisture-separation hook is located on said convex surface at said intermediate portion, said moisture separation hook having a fixed portion integral with said body on a free end surface defining with said body a moisture-collection opening facing said leading end of said respective louvers, said moisture-collection opening collecting moisture and dust removed

from air passing across said moisture-separation hook when said at least two louvers are in an open position.

~~10.~~ 9. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein said moisture and dust removing structure is located in proximity to at least one of said leading end, said trailing end, and said intermediate portion of said respective entire louvers.

~~11.~~ 10. A moisture and dust removing louver pack according to claim ~~2~~ 1 wherein:

said ~~moving~~ movable support mechanism comprises a louver control arm;

said louver support structure comprises a hinge plate;

said respective entire louvers comprise at least one louver control arm pin-receptacle at said respective at least one pivoting location, and at least one hinge plate pin-receptacle at said respective at least one fulcrum location; and

wherein said louver pivoting structure comprises:

at least one louver control arm hinge pin interconnecting said louver control arm and said respective at least one louver control arm pin-receptacle; and

at least one hinge plate pin interconnecting said hinge plate and said respective at least one hinge plate pin-receptacle;

said respective entire louvers pivoting about said respective at least one hinge plate pin interconnecting said respective entire louvers and said hinge plate in response to movement of said louver control arm, causing the pivoting of said respective entire louvers from said closed position towards an open position or from an open position towards said closed position.

~~12.~~ 11. A moisture and dust removing louver pack according to claim ~~12~~ 10 wherein said louver control arm is an upper louver control arm, and said hinge plate is an upper hinge plate.

~~13.~~ 12. A moisture and dust removing louver pack according to claim ~~12~~ 11 and further comprising an actuator assembly for selectively moving said louver control arm to effect the movement of said set of louvers between an open position and said closed position.

~~14.~~ 13. A moisture and dust removing louver pack according to claim ~~9~~ 7 and further including a drainage assembly for draining water from said respective moisture-separation hooks out of said set of louvers.

~~15.~~ 14. A moisture and dust removing louver pack according to claim 1 wherein said louver body of respective entire louvers further comprises an airfoil tip located at said leading end of said louver body.

~~16.~~ 15. A moisture and dust removing louver pack according to claim ~~16~~ 14 wherein said airfoil tip is a symmetrical airfoil tip comprising:

a curved upper surface;

a curved lower surface; and

a curved leading edge operatively connecting said curved upper surface and said curved lower surface;

said symmetrical airfoil tip having a cross-sectional configuration wherein said curved upper surface is positioned as a mirror image of said curved lower surface about a straight imaginary line defined by a locus of points midway between said curved upper surface and said curved lower surface.

~~17.~~ 16. A moisture and dust removing louver pack for being placed in an air passageway and for removing moisture and dust from airflow flowing through the air passageway, said moisture and dust removing louver pack comprising:

a louver support structure for supporting louvers for pivotal movement in the air passageway;

a set of louvers supported in said louver support structure in the air passageway for pivotal movement between a closed position for closing and sealing the air passageway to obstruct the flow of air through the air passageway and an open position for allowing the flow of air through the air passageway, said set of louvers including at least two entire louvers, said at least two entire louvers each comprising:

a louver body having an airfoil configuration enabling airflow across said at least two entire louvers as a generally laminar flow when said set of louvers is in an open position, wherein said airfoil configuration of said louver body of respective entire louvers is generally smooth enough to transfer air passing over said airfoil configuration as laminar flow, wherein said louver body of respective entire louvers comprises:

a leading end;

a trailing end;

an intermediate portion between said leading end and said trailing end;

at least one fulcrum location located in proximity to at least one of said leading end, said trailing end, and said intermediate portion of said respective entire louvers; and

at least one pivoting location for receiving a force to effect the pivoting of each of said respective entire louvers between the closed position and an open position about one of said at least one fulcrum location;

a moisture and dust removing structure located on said louver body of

respective entire louvers for removing moisture and dust from air flowing past each of said respective entire louvers,~~;~~ said moisture and dust removing structure being a moisture-separation hook and a continuation of the airfoil configuration of said airfoil configuration of said louver body;

~~a louver pivoting structure for enabling the pivoting of said at least two entire louvers between the closed position and an open position; and~~

a movable support mechanism for selectively applying force to said louver pivoting structure for pivoting said at least two entire louvers between the closed position and an open position~~.~~;and

a moisture and dust removing louver pack according to claim 6 and further including a drainage assembly for draining water from said respective moisture-separation hooks out of said louvers.

~~18.~~ 17. The moisture and dust removing pack according to claim ~~18~~ 1 wherein said louver body of respective entire louvers further comprises an airfoil tip located at said leading end.

~~19.~~ 18. A moisture and dust removing louver pack for being placed in an air passageway and for removing moisture and dust from airflow flowing through the air passageway, said moisture and dust removing louver pack comprising:

a louver support structure for supporting louvers for pivotal movement in the air passageway;

a set of louvers supported in said louver support structure in the air passageway for pivotal movement between a closed position for closing and sealing the air passageway to obstruct the flow of air through the air passageway and an open position for allowing the flow of air through the air passageway, said set of louvers including at least two louvers, said at least two louvers each comprising:

a louver body having an airfoil configuration enabling airflow across said at least two louvers as a generally laminar flow when said set of louvers is in an open position, wherein said body of respective louvers comprises:

a leading end;

a trailing end;

an intermediate portion between said leading end and said trailing end;

at least one fulcrum location located at said intermediate portion; and

at least one pivoting location located proximate said leading end for receiving a force to effect the pivoting of each of said respective louvers between the closed position and an open position about one of said at least one fulcrum location;

a convex surface extending between said leading end and said trailing end, said convex surface having a convex leading surface extending between

said leading end and said intermediate portion and a convex trailing surface extending between said intermediate portion and said trailing end;

a concave surface extending between said leading end and said trailing end, said concave surface having a concave leading surface extending between said leading end and said intermediate portion and a concave trailing surface extending between said intermediate portion and said trailing end; and

a symmetrical airfoil tip located at said leading end, said symmetrical airfoil tip comprising a curved upper surface, a curved lower surface, and a curved leading edge operatively connecting said curved upper surface and said curved lower surface, said symmetrical airfoil tip having a cross-sectional configuration wherein said curved upper surface is positioned as a mirror image of said curved lower surface about a straight imaginary line defined by a locus of points midway between said curved upper surface and said curved lower surface;

a moisture and dust removing structure for removing moisture and dust from air flowing past each of said respective louvers, wherein said moisture and dust removing structure is located on said concave surface at said intermediate portion, said moisture and dust removing structures of adjacent louvers contacting each other in an air-sealing engagement when said set of louvers is in the closed position to seal said lower pack against airflow therethrough;

a louver pivoting structure for enabling the pivoting of said at least two louvers between the closed position and an open position; and

a movable support mechanism for selectively applying force to said louver pivoting structure for pivoting said at least two louvers between the closed position and an open position.