

(57) Abrégé(suite)/Abstract(continued):

with a first pass and a second pass. A secondary heat exchanger having a third pass and a fourth pass. The primary heat exchanger assembly may be generally parallel to the secondary heat exchanger assembly such that supply airflow may traverse over the primary and secondary heat exchangers simultaneously in both a first direction and in an opposite second direction. The first pass may include a single drum. The second pass, third pass and fourth pass may include a plurality of aligned tubes.

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ABSTRACT

The present provides a condensing heat exchanger assembly that includes a plurality of heat exchanger passes. The condensing furnace includes a burner assembly having a combustion air device and further includes a frame having primary heat exchanger with a first pass and a second pass. A secondary heat exchanger having a third pass and a fourth pass. The primary heat exchanger assembly may be generally parallel to the secondary heat exchanger assembly such that supply airflow may traverse over the primary and secondary heat exchangers simultaneously in both a first direction and in an opposite second direction. The first pass may include a single drum. The second pass, third pass and fourth pass may include a plurality of aligned tubes.

