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Abstract:

The present invention describes an improved ejector induced gasification stove. The stove described consists of an inclined fuel port 30 such that natural movement of the fuel is enabled. The fuel used in the stove varies from split fuel wood sticks to other agro-residues like cotton stalk, corncobs or other biomass in loose, pelletized or briquetted form. The stove is further provided with an ejector 32, which receives air from a fan 33, which is an axisymmetric combustion air device that focuses the combustion to a high intensity zone to efficiently burn the fuel rich gasses with minimum undesirable emissions. The present invention further describes Hybrid Ejector induced - Reverse-downdraft gasifier Stove (HERS). The design ensures use of pellet or wood chip, by introducing the ejector principle in a reverse downdraft design operations. Figure 3