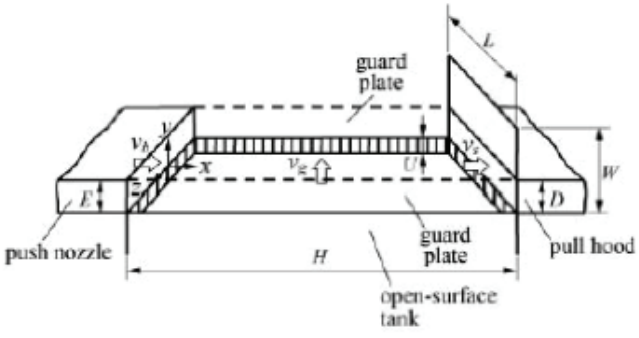
Title	PUSH-PULL TYPE VENTILATION HOOD
Abstract	1. A method of manufacturing a push-pull type ventilation hood having a push device to obtain a push air flow and a pull device to exhaust contaminant flow with an exhaust opening. 2. By operating the push - pull system on the critical operation boundary, a capture efficiency of higher than 98% is possible.
Description	1. The proposed design guidelines suggest a step-by step proce dure for designers to determine the primary flow parameters, the push-jet velocity and the pull-flow velocity, if based on the open-surface tank width and estimated rising gas velocity. 2. A push - pull system can save airflow by about 50% when compared with using side exhaust alone.
Applicable Targets	Pull hoods combined with push airflows have been widely applied in the industries that require the removal of contaminant vapors, fumes or aerosols from a large open surface.
Remark	Had designed the push - pull system for electroplating factory, LED factory, and tape factories, reduce exposure to harmful substances.

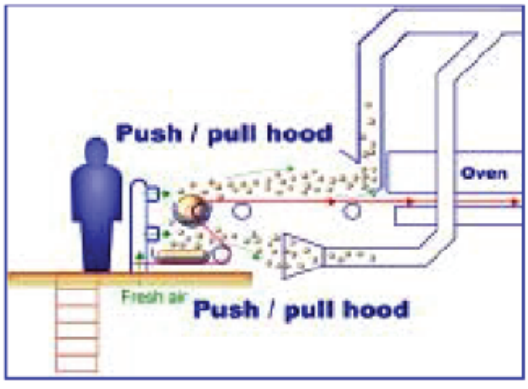
Patent Status

Approved by	Type	Patent No.	Filed
U.S.	Invention	7819727	2004/7/8
R.O.C.	Utility	M262204	2004/6/18

Discription & Figures



▲ Definitions of geometric parameters



▲ The push - pull system for tape factory, reduce 80% toluene exposure