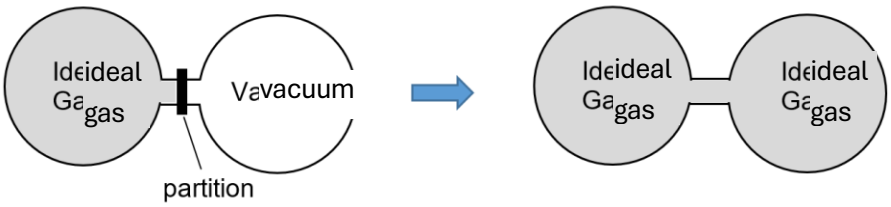
13 An ideal gas is kept in one side of a thermally isolated container with a small partition. The other side of the container is a vacuum.



The partition between the two sides of the container is then removed, and the gas fills the whole container. After some time, the system reaches a steady state.

When the first law of thermodynamics is used to describe this process, which of the following rows correctly describes the application of the first law?

	increase in internal energy of gas	heat gained by gas	work done on gas
A	–	0	–
B	0	0	0
C	–	0	0
D	0	+	–