

LUNG SIMULATION APPARATUS

ABSTRACT

5 There is provided a lung simulation apparatus for simulating a
state of a living mammalian lung, the lung simulation apparatus
comprising, a housing having a shape defined by an apex, an open
base and a lateral surface that tapers from the open base to the apex;
an elastic membrane covering the open base of the housing; an
10 inflatable sac disposed within the housing, the sac being in substantial
conformance with the shape of the housing and approximating the
shape of the living mammalian lung, when in an inflated state; an
internal space for containing fluid, the internal space being defined as
the space between the housing and the inflatable sac and the space
15 between the elastic membrane and the inflatable sac, wherein the
space for containing fluid substantially complies with the anatomical
dimensions of an intrapleural space of the living mammalian lung
when the inflatable sac is in the inflated state. There is also provided
a method of making the lung simulation apparatus.

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Fig. 1