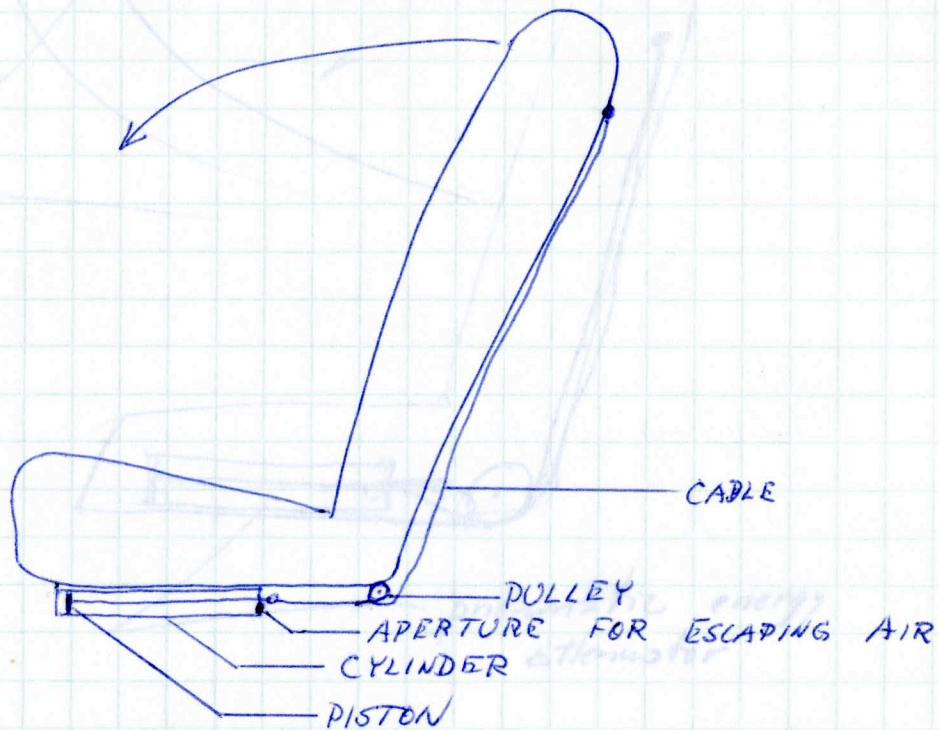
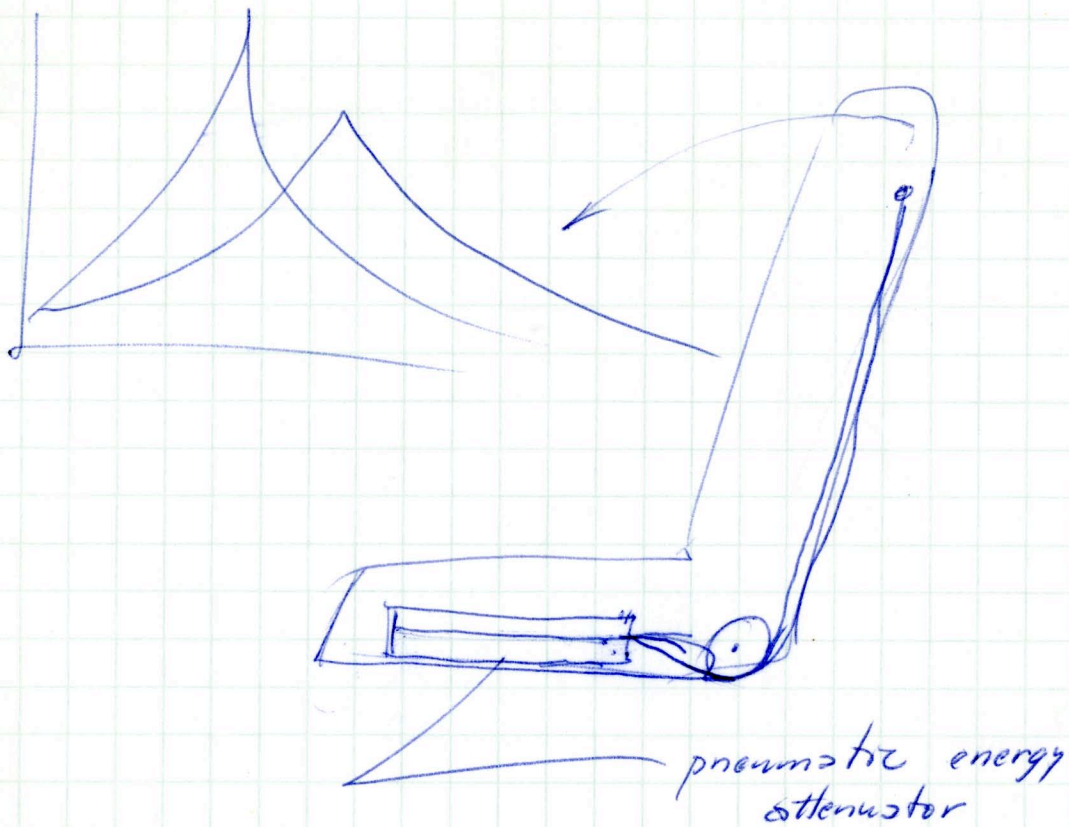


# CONCEPTUAL DESIGN OF A PNEUMATIC ENERGY ATTENUATOR FOR PASSENGER SEATBACKS



WHEN SEATBACK IS THROWN FORWARD AT IMPACT ITS FORWARD MOTION IS RESTRICTED BY THE MOTION OF PISTON FORCING AIR THROUGH THE APERTURE. THE ATTENUATOR'S REACTION IS AUTOMATICALLY ADJUSTABLE TO THE FORCE CAUSING THE SEATBACK TO MOVE FORWARD IF A PASSENGER IS CONTAINED IN THE SEAT BY A LAPBELT AND A CHEST BELT THE HEAD WOULD BE CONTAINED WITHIN AN ENVELOPE WHICH WOULD AVOID ITS IMPACTING ON OTHER STRUCTURES SUCH AS THE SEAT IN FRONT OR A BULKHEAD IN FRONT.

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