

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE

ROBERT BOSCH LLC,	)	
	)	
Plaintiff,	)	
	)	
v.	)	C.A. No. 12-574 (LPS)(CJB)
	)	(CONSOLIDATED)
ALBEREE PRODUCTS, INC., API KOREA	)	
CO., LTD., SAVER AUTOMOTIVE PROD-	)	<b>REDACTED PUBLIC VERSION</b>
UCTS, INC., and COSTCO WHOLESALE	)	<b>FILED 5/1/2015</b>
CORPORATION,	)	
	)	
Defendants.	)	

**APPENDIX OF EXHIBITS TO OPENING BRIEF IN SUPPORT OF  
COSTCO'S MOTION FOR SUMMARY JUDGMENT  
AS TO THE GOODYEAR HYBRID WIPER PRODUCT  
AND REGARDING CLAIM CONSTRUCTION**

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April 24, 2015

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## Tutorial History of Windshield Wiper Development

Eric H. Maslen

April 15, 2015

The development of the windshield wiper is linked inextricably with that of the windshield. Horse drawn vehicles nearly universally did not have windshields for the driver because of the need for close interaction between the driver and the horse or horses. This meant that, when horse drawn vehicles were fitted with windows facing forward, these were only for the passengers and were able to be cleaned by the driver. Consequently, horse drawn vehicles created no significant need for a mechanically driven windshield wiper. The first motor-drawn vehicles of any commercial importance were trains or streetcars and these vehicles did place a sheet of glass in front of the driver, forming the earliest windshields. These windshields were flat rectangular pieces of glass.

**First Patents.** The first patents for windshield (or windscreen) wipers were intended primarily for use either on locomotives or street cars and were granted in 1903 to Mary Anderson (US 743,801), Robert Douglass (US 762,889), and John Apjohn (GB190321790). As illustrated in Figure 1, the '801 patent swept a rigid squeegee-style wiper blade across a portion of a flat, rectangular windshield.

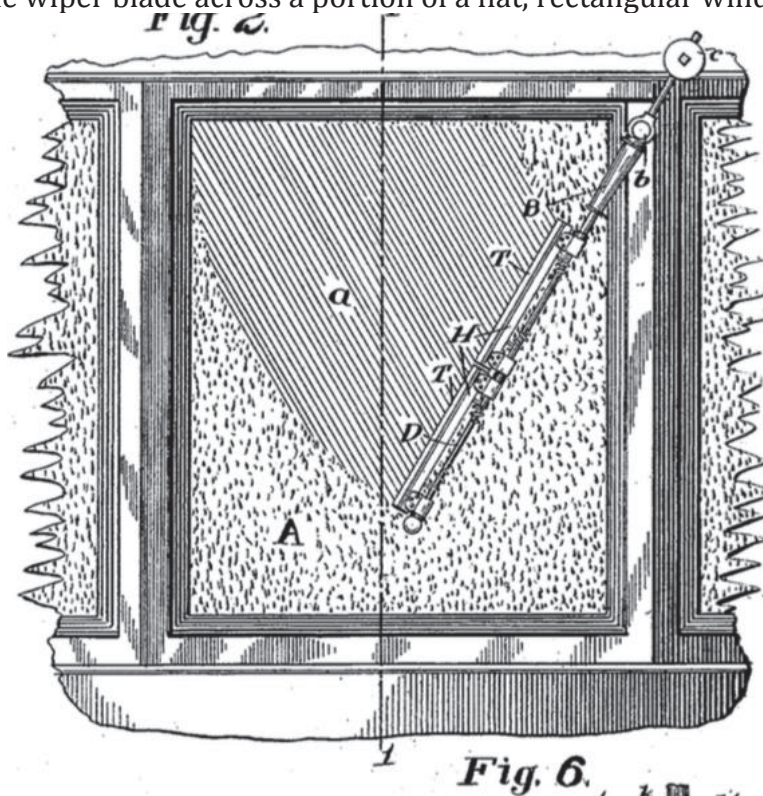


Figure 1: US743,801 (Anderson) Figure 6 showing a mechanism for sweeping a rigid squeegee-style wiper blade across a portion of a flat rectangular windshield.

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