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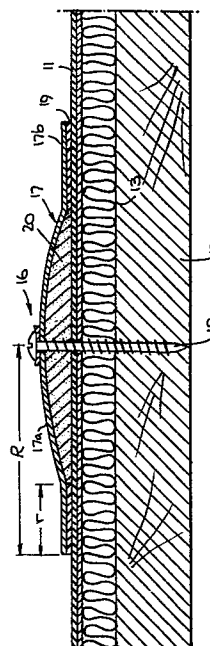
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54 **Flat roof with cover and hold down devices.**

57 A loosely laid water-proof membrane of elastomeric material (11) covering a flat roof is combined with a series of hold-down devices (14) for securing the membrane to the roof deck (12) against wind-generated uplift forces. Each hold-down device (16) comprises a disc (17) having a domed, downwardly concave, middle portion (17a) and a surrounding, generally flat, transverse peripheral portion (17b) the radial width of which is equal to between about 25% and 50% of the radius of the disc as a whole. The discs, with their concavities facing the membrane, are arranged on the latter at predetermined spacings, being fixed in place by metallic fasteners (18) driven through the domed portions and the membrane deeply into the roof deck. The concavity of each disc is filled with a sealant (20), so that as each disc is pressed down upon tightening of the associated fastener, the sealant is pressed down against the membrane as well as inwardly against the fastener and outwardly against the peripheral portion of the disc. An elastomeric flat ring gasket (19) may also be located between each disc's peripheral portion and the underlying membrane.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> )
Y	US-A-3 918 233 (SIMPSON) * Column 5, line 53 - column 6, line 31; figures 4,5 *	1,6	E 04 D 5/14 E 04 D 3/36
A		3,4,8,9,13	
Y	--- GB-A- 420 109 (HURDEN) * Page 2, lines 47-89; figures 2,3 *	1,6	
A		3,4	
A	--- US-A-4 074 492 (SIMPSON)  * Column 7, line 6 - column 8, line 19; pages 8-17 *	1,3,4,6,8-10,12,13	TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )
A	--- FR-E- 39 827 (BOULELEUX)  * Whole document *	1,3,4,6,8,10,13	E 04 D F 16 B
A	--- US-A-4 292 876 (DE GRAAN)  * Column 1, lines 5-23; column 2, line 65 - column 3, line 3; column 3, line 43 - column 4, line 4; figures 1-3,5 *  --- -/-	2,7,10,11	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-05-1984	Examiner SARRE K.J.K.TH.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document	



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	FR-A-2 170 106 (ELCO INDUSTRIES INC.) * Page 4, line 20 - page 5, line 8; page 7, line 9 - page 8, line 18; figures 1-3 *  -----	10,11	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-05-1984	Examiner SARRE K.J.K.TH.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document			