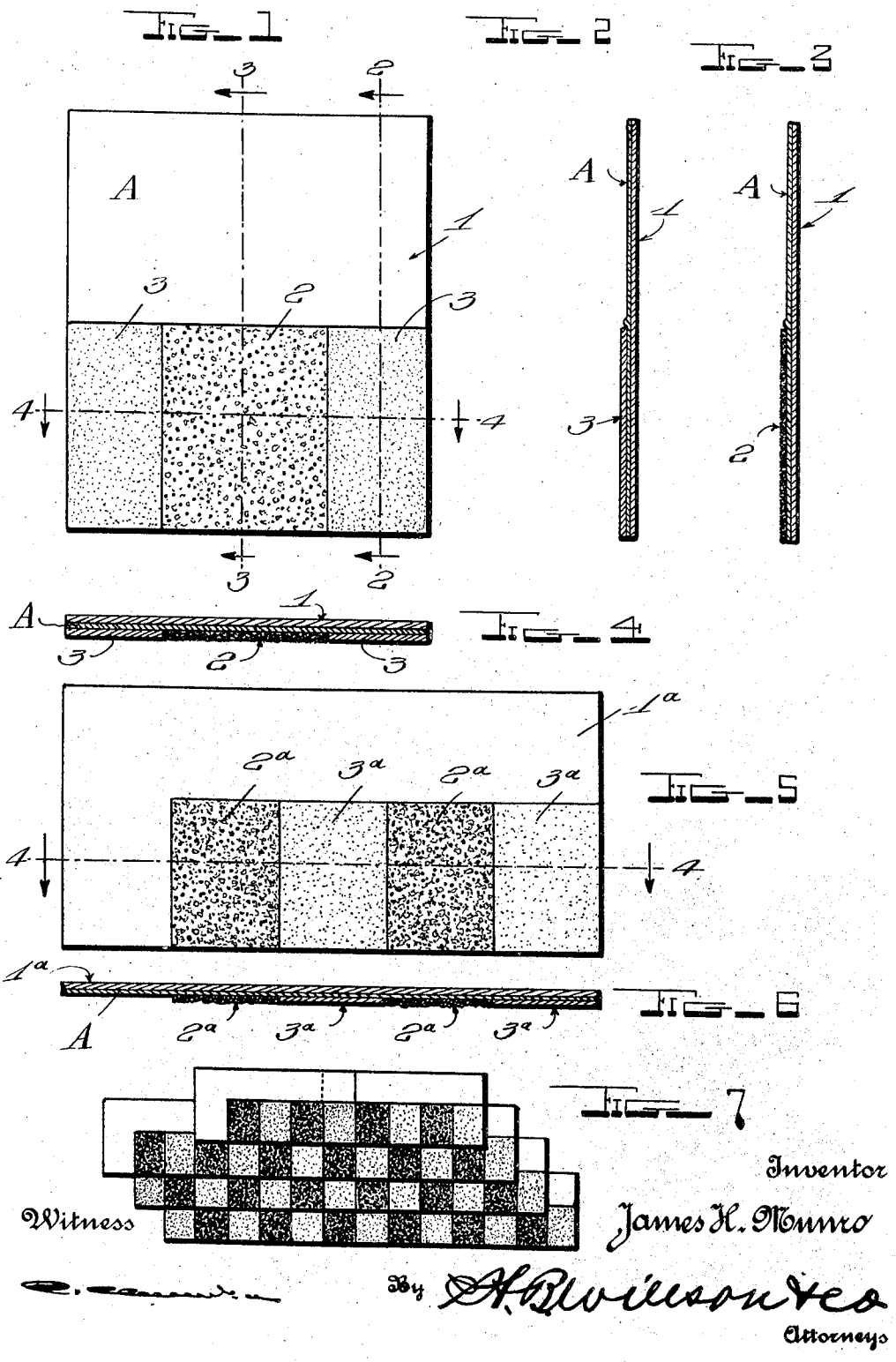
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J. H. MUNRO

MULTIPLE SHINGLE ROOFING UNIT

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MULTIPLE-SHINGLE-ROOFING UNIT.

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My invention relates to shingle roofs and has reference more particularly to roof coverings embodying flexible shingle portions such as those coated with crushed slate. The edges of such roof coverings are prone not only to curl, but are often lifted by high winds, permitting cold air, rain and snow to enter. It is the primary object of my invention however to improve upon such roof coverings, by embodying in them, a plurality of substantially rigid shingle portions which prevent any appreciable flexure of the flexible shingle portions when the covering is in use.

A further aim is to provide a roof covering of the improved type formed of separate easily handled units, each of which embodies at least one flexible shingle portion and at least one substantially rigid portion.

Another object of the invention is to provide a roofing unit of the type mentioned, in which a substantially rigid shingle is secured to one end of a backing sheet and a flexible shingle is secured to said sheet in inwardly spaced relation with its other end, leaving this end free to be overlapped by a rigid shingle of the next adjacent unit, so that such rigid shingle will prevent said flexible shingle from curling or otherwise raising from the roof.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a plan view of one form of roofing unit embodying my invention.

Figure 2 is an edge view of Fig. 1.

Figure 3 is a sectional view on line 3—3 of Fig. 1.

Figure 4 is another sectional view as indicated by line 4—4 of Fig. 1.

Figure 5 is a plan view showing a different form of unit.

Figure 6 is an edge view of Fig. 5.

Figure 7 is a small diagrammatic view showing a number of the roofing units of Figs. 5 and 6, laid in overlapping relation.

In both forms of construction selected for illustration in the present application, each roofing unit comprises at least one flexible shingle portion and at least one substantially rigid shingle portion, the two being unitarily connected with each other, the connection being preferably established by means of a backing sheet.

In the construction shown in Figs. 1 to 4, the numeral 1 designates a flexible waterproof backing sheet whose lower edge portion is covered throughout its horizontal length with shingles. I have illustrated one comparatively large flexible shingle 2 secured to the upper face of the backing sheet 1, and a part of relatively narrow substantially rigid shingles 3 secured to said face at opposite edges of said shingle 2. Thus, it will be seen that when the unit is attached to the roof, preferably by driving nails through the upper ends of the shingles 3, said unit will be substantially rigid throughout, as the shingles 3, due to their substantially rigid nature, will prevent appreciable flexure of the flexible shingle 2 and consequently it cannot blow upwardly from the roof, nor can it curl.

In the construction illustrated in Figs. 5, 6 and 7, a horizontally elongated backing sheet 1^a is employed, suitably waterproofed. Along the lower edge portion of this sheet, I have shown a greater plurality of shingles than shown in the form of construction above described. For sake of illustration, two flexible shingles 2^a have been illustrated upon the upper face of the backing sheet 1^a and two substantially rigid shingles 3^a have been shown at the edges of said shingles 2^a. One of the shingles 3^a is disposed at one end of the backing sheet 1^a, while one of the shingles 2^a is in inwardly spaced relation with the opposite end 4 of said backing sheet, leaving this end free to be overlapped by a rigid shingle of the next adjacent unit, when the roof is laid. Thus, the last named rigid shingle will hold the end portion 4 of the backing sheet down and will prevent the adjacent shingle 2^a from curling or blowing upwardly.

In the construction shown, very little overlap of the different rows of shingles is permitted and consequently, the backing 1 or 1^a preferably extends an appreciable extent above the shingles, to provide a weather tight roof. In some forms of construction, however, if sufficient overlap were provided for, it will be seen that the upward extension of the backing might be omitted. Moreover, it is possible that in some instances the substantially rigid shingles need not be secured to the backing sheets at the time of manufacture, but can be nailed in place as the roofing is applied. Such a construction however is not as practical as that illustrated.

By providing a roof constructed in accordance with my invention, it will be seen that a great portion thereof may be formed of comparatively cheap flexible roofing, so that its cost will be by no means prohibitive. As the substantially rigid shingles prevent curling or upward blowing of the flexible shingles however, a roof is provided which is equally as advantageous as one formed entirely of substantially rigid shingles. In the preferred manufacture of the roofing, any of the well known compositions may be used for the shingles 2 and 2ª, but such compositions are preferably slate covered, that is covered with granulated slate. For the shingles 3, any suitable materials may be used, but I contemplate the use of slate in most instances. Attention may here be directed to the fact that if desired, contrasting colors may be used for the flexible and rigid shingles, so that a very pleasing effect will be obtained from the completed roof.

In the preferred construction, the backing sheet is preferably coated with asphalt or the like A, and this coating may be used to unite said sheet with the shingles.

From the foregoing, the embodiments of my invention which have been illustrated will be fully understood, but it is to be understood that such invention is not restricted to the present disclosure to any extent otherwise than restricted by the manner in which such invention is claimed.

I claim:

1. A roof covering comprising flexible shingles, a backing upon which said shingles are secured in spaced relation, and substantially rigid shingles also secured to said backing in the spaces between the flexible shingles, whereby to hold said flexible shingles against appreciable flexure when the covering is applied to the roof.

2. A roofing unit comprising a backing sheet, a flexible shingle secured to the upper side of said sheet, and a substantially rigid shingle also secured to the upper side of said backing sheet adjacent said flexible shingle, whereby to hold the latter against appreciable flexure when in use.

3. A roofing unit comprising a flexible backing sheet having a granule-coated portion at its lower end for exposure to the weather, and rigid shingles secured upon said lower end of the backing sheet at opposite sides of said granule-coated portion, the rigid shingles preventing wind-flapping and curling of the granule-coated portion said backing sheet extending above said granule-coated portion and said rigid shingles to underlie other roofing units.

In testimony whereof I have hereunto affixed my signature.

JAMES H. MUNRO.