

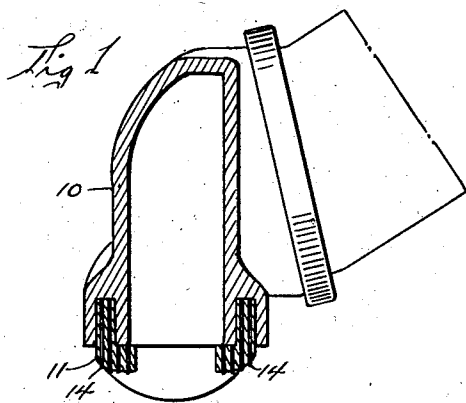
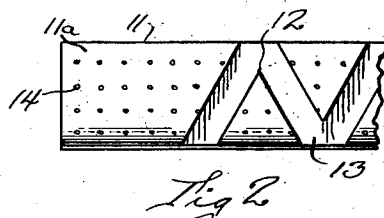
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SUCTION CLEANER AGITATOR

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SUCTION CLEANER AGITATOR

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7 Claims. (Cl. 15—157)

This invention relates to suction cleaner agita-
tors of the type having sliding contact with a
floor covering, and has as its object to improve
the ability of such agitators to dislodge lint, fine
hairs, etc., that may become attached to the pile
of a rug or carpet.

A further object is to attain the above end, in
an agitator of a non-metallic material which
will not smudge the carpet or rug which it con-
tacts.

Another object is to provide an agitator of im-
proved lasting and wearing quality.

With these and other objects in view my inven-
tion consists in the combination and construc-
tion and arrangement of the various parts there-
of, whereby the objects contemplated are at-
tained, as more fully set forth in the accompany-
ing specifications, pointed out in my claims, and
illustrated in the accompanying drawing, in
which:

Fig. 1 is a sectional view through a suction
cleaner floor tool equipped with my improved
agitators.

Fig. 2 is an enlarged view of a portion of the
working face of the agitator.

A suction cleaner employing a floor tool 10 of
the type shown in Fig. 1, employs suction alone
for lifting material from the floor, and the agita-
tors 11 function to some extent to comb or part
the nap fibres of the carpet, being provided with
triangular shaped projections 12 for this purpose.
Another function of the agitators is to provide
a series of small slots 13 which direct the air
in a plurality of fine streams beneath the agita-
tors.

The agitators 11 are in the form of bars defin-
ing the longitudinal edges of the suction mouth
of the floor tool.

The present invention aims to secure the result
of dislodgment of attached foreign material by
the contact of the under faces of the agitators
with the nap of the carpet or rug. Present type
of agitators of fibre or phenolic treated material,
will wear smooth so that there is very little en-
gaging effect in the working faces thereof.

To this end, I provide an agitator 11 of the
usual bar type, having a body 11a of hard fibre,
phenolic condensation material, hard rubber,
nitro-cellulosic material, or other materials of
comparable qualities, but characterized by the
presence of fine spears or bristles 14 of a mate-
rial which is relatively stiff and hard, sufficient-
ly so in comparison to the material in which it is
suspended, that wearing of the faces of the agita-
tors will expose the ends of the spears. The

spears 14 are positioned transversely to the work-
ing faces of the agitators in spaced, parallel ar-
rangement.

The almost microscopic projections which will
thus be formed on the faces of the agitators, will
engage and loosen foreign material that is at-
tached to the nap of the carpet, yet will be of
insufficient length for lint, etc., to become at-
tached to the agitators. Because they will re-
ceive the greater wearing effect after having once
become slightly protruded, the length of the pro-
truding ends of the spears will remain constant.

The spears may be of horse hair, bamboo fibre,
wire, or material of similar characteristics.

Agitators constructed according to this inven-
tion not only are more effective in dislodging at-
tached foreign material, but will wear longer and
give more uniformly satisfactory service than
former types.

I claim:

1. A suction cleaner agitator of solid non-
metallic material formed with integral agitat-
ing teeth containing embedded spaced fibres of
greater wear resisting quality than that of said
material, positioned transverse to the carpet en-
gaging faces of said teeth, both said fibres and
said embedding material being adapted to simul-
taneously contact a floor covering.

2. A suction cleaner agitator of solid non-
metallic material formed with integral agitating
teeth containing embedded spaced fibres of
greater wear resisting quality than that of said
material, positioned transverse to the carpet en-
gaging faces of said teeth and projecting a
minute distance beyond said faces, both said
fibres and said embedding material being adapted
to simultaneously contact a floor covering.

3. A suction cleaner agitator of solid non-
metallic material formed with integral agitating
teeth containing embedded spaced metallic wires
positioned transverse to the carpet engaging
faces of said teeth, both said wires and said em-
bedding material being adapted to simultaneous-
ly contact a floor covering.

4. A suction cleaner agitator of solid non-
metallic material formed with integral agitating
teeth containing embedded spaced bristles posi-
tioned transverse to the carpet engaging faces of
said teeth, both said bristles and said embedding
material being adapted to simultaneously con-
tact a floor covering.

5. A suction cleaner agitator of hard fibre ma-
terial formed with integral agitating teeth con-
taining embedded spaced fibres of greater wear
resisting quality than that of said hard fibre ma-

terial positioned transverse to the floor engaging face of said agitator, both said fibres and said embedding material being adapted to simultaneously contact a floor covering.

- 5 6. A suction cleaner agitator of hard fibre material formed with integral agitating teeth containing embedded spaced fibres of greater wear resisting quality than that of said hard fibre material positioned transverse to the floor engaging
10 face of said agitator and projecting a minute distance beyond said face, both said fibres and said embedding material being adapted to simultaneously contact a floor covering.

7. A suction cleaner agitator of solid non-metallic material containing embedded spaced fibers positioned transverse to the carpet engaging face of said agitator; said fibers projecting a minute distance beyond the face of said solid material and being of greater wear resisting quality than said solid material, said fibers being uniformly spaced in the solid material, whereby the fibers continue during the wearing down of both bristles and said solid material, to project a
5 10 minute distance beyond the face of said solid material.

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