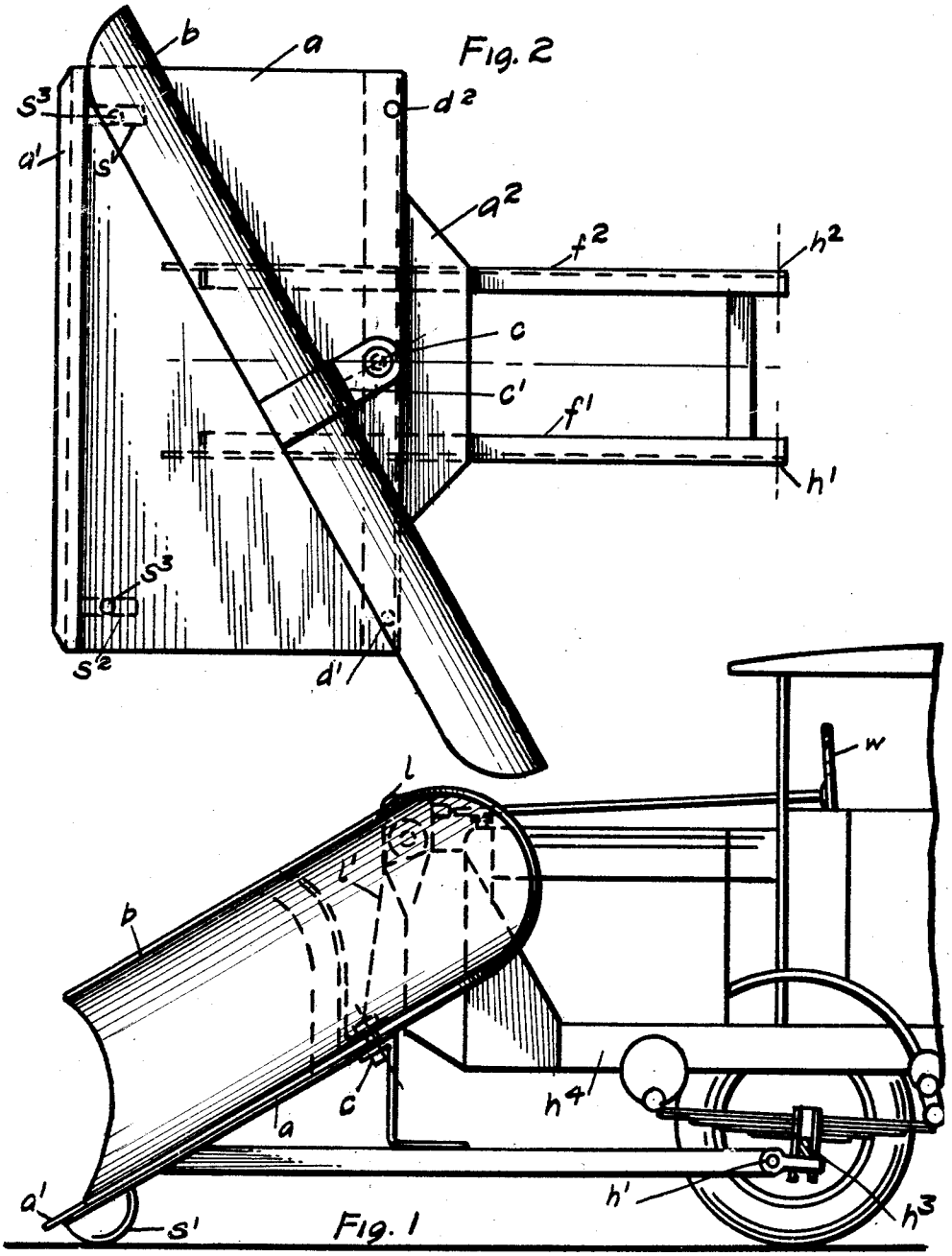
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SNOWPLOW

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BY

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SNOWPLOW.

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This invention relates to snow plows such as are attached to vehicles and serve to remove the snow by the movement of a fixed mouldboard with the vehicle. Plows of this character have generally been of two types in one of which the mouldboard is disposed generally at an angle to the line of travel of the vehicle and by its conformation is intended to deflect the snow to one side and in the other of which the mouldboard is of V-shape and has its faces disposed at angles to the direction of travel of the vehicle and is integral with an inclined platform. The first named type has had the disadvantage of limited usefulness in deep snow and both types have had the disadvantage of irreversibility in that no control is provided to meet special conditions as by throwing the snow to one side or the other of the vehicle as may be desirable. Further, no plow of this type has been provided which is comparatively inexpensive to manufacture and susceptible of ready adjustability and reversibility to meet changing conditions of use. It is the principal object of the present invention to provide a plow which shall be essentially of the second named type in that it is proposed to provide an inclined platform to lift the snow somewhat, but its novelty resides in the provision of a separate mouldboard of suitable configuration made in one or more sections which is adjustably and detachably mounted on the platform so that its angularity and direction of throw may be quickly and conveniently changed without impairing the functions of the mechanism considered as a whole. A further object of the invention is to provide an adjustable snow plow of this character which may be so mounted on a vehicle as to be raised or lowered when necessary so as to change the position of the cutting edge.

The invention will be described more particularly with reference to the embodiment shown in the accompanying drawings, in which:

Figure 1 is a view in side elevation of a fragment of a motor vehicle on the front of which is mounted the improved plow with a lifting device therefor.

Figure 2 is a view in plan of so much of the plow and vehicle shown in Figure 1 as is necessary for an understanding of their relationship.

It will be understood as the description proceeds that the invention is not to be limited to snow plows used on motor vehicles nor to the particular means illustrated for pivotally mounting a plow thereon and raising it. As shown in the drawings it is proposed to provide a forwardly extending frame consisting of parallel members f', f^2, which are pivoted as at h', h^2, on the front axle h^3 of a motor vehicle h^4. On these forwardly extending members f' and f^2 is supported as through angle pieces a^2 an inclined platform a, the platform being secured to the angle pieces and to the pivoted frame members by any suitable means such as rivets, bolts, etc. At the lower front edge of the inclined platform a is mounted a transverse cutting edge a'. Under the platform are shoes s' of any desired form and height secured thereto with some degree of adustment through bolts s^3 engaging in slots s', s^2. These shoes prevent the cutting edge from digging in. By means of a lifting device of any known character the entire mechanism described may be raised or lowered. In the drawings there is shown a hand wheel w which through gearing l and cable l' attached to the platform may be employed to raise or lower the parts. This mechanism is not new and forms no part of the present invention. On the platform a is supported a mouldboard b of any desired configuration such as the concave form illustrated. In accordance with the invention it is proposed to mount this separate mouldboard detachably and adjustably on the platform so that its angle of incidence may be varied as required and its position on the platform may be changed to throw the snow to one side or the other of the vehicle depending upon local conditions. Since the configuration merges with the inclined platform a the two parts when united form essentially a single unit co-operating to direct the snow upwardly and outwardly. The securing means illustrated include a bracket c' which is secured to the back of the mouldboard at its mid-section and is pivotally connected as through a bolt c to the platform. Another bolt d' may also be employed for greater strength.

From the description it will be apparent that the parts may be reversed, that is to say, the mouldboard b may be swung on its pivot c until it is in such relation to the edge a' as to throw the snow outwardly to the right rather than to the left as illustrated. When in such reversed position a

bolt may be passed through the mouldboard and the bolt hole d^2 as was described with reference to the bolt d'.

Another aspect of the invention is the use of a mouldboard as a detachable section on an inclined platform. For instance, if it were desired to direct the snow outwardly to both sides of the vehicle two short sections might be mounted on the platform a with reverse inclination meeting towards the lower front edge of the platform and extending rearwardly and upwardly towards the bolt holes d', d^2. If two such sections were provided either one of them might be removed.

The action of the improved plow in use is such that the benefit of lift and side deflection is obtained so that drifts of considerable depth may be handled in the way ordinarily practiced with such a type of plow.

Changes in the details of construction and assembly including particularly the various fastening devices employed may obviously be made by one skilled in the art without departing from the spirit of the invention.

What I claim is:

1. In a snow plow, an inclined member adapted to elevate snow and formed with a cutting edge, a mouldboard mounted detachably and pivotally thereon and formed with a curved surface and extending across the inclined member from one side edge thereof to the other and disposed at an angle to the cutting edge to constrain snow to move off the inclined member entirely to one side thereof.

2. In a snow plow, an inclined member adapted to elevate snow and formed with a cutting edge, a mouldboard mounted detachably thereon and formed with a curved surface and extending across the inclined member from one side edge thereof to the other and disposed at an angle to the cutting edge to constrain snow to move off the inclined member entirely to one side thereof and means to adjust the angularity of the mouldboard to the cutting edge of the inclined member.

This specification signed this 15th day of April, A. D. 1926.

MAURICE WALTER.