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Translation of the original instruction
Sanding machine Spider, 230V

#080385





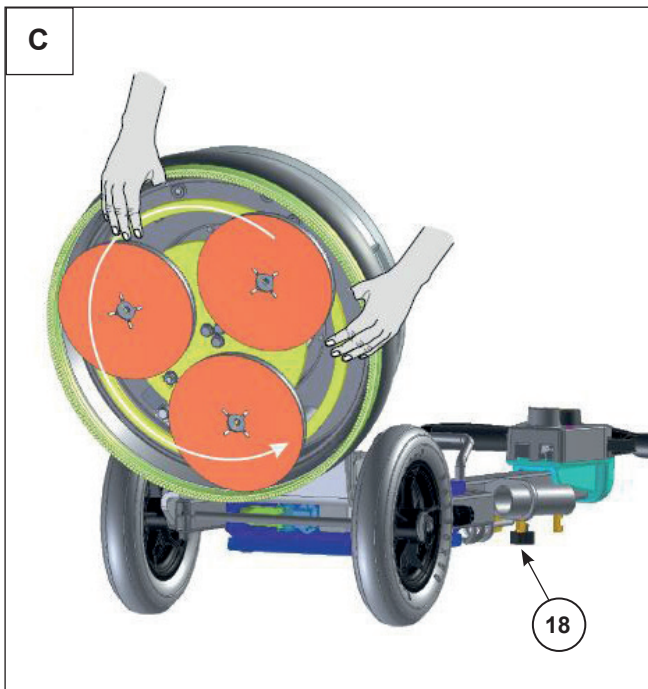
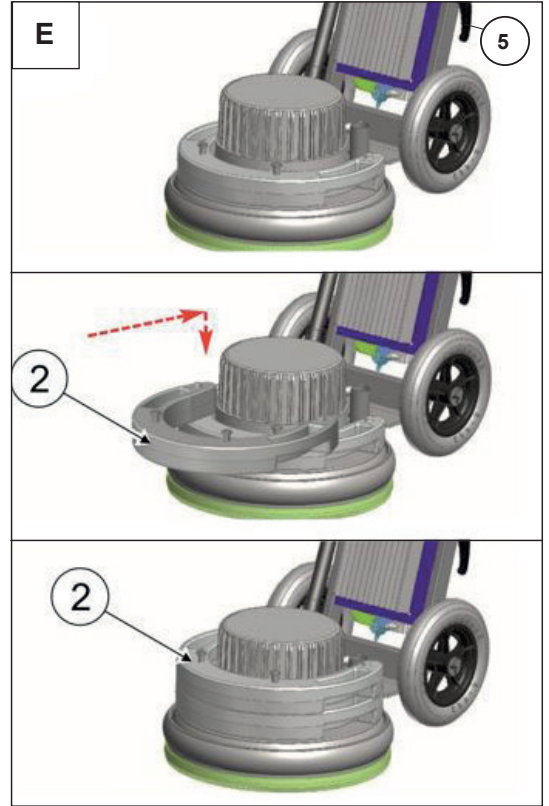
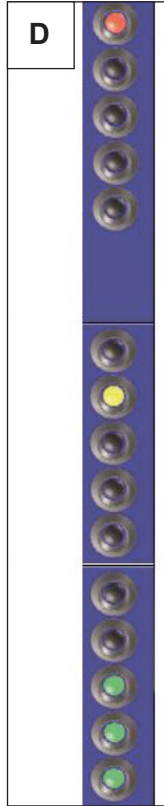
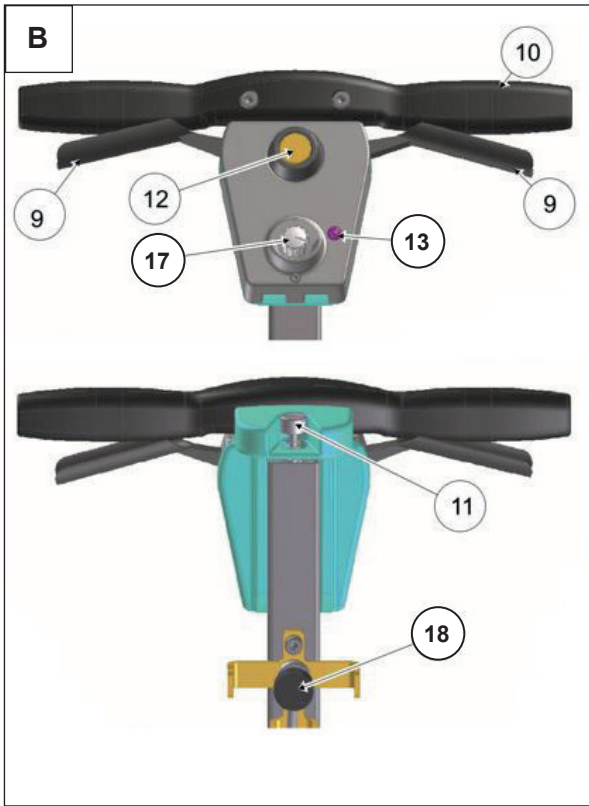
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Translation of the original operating instructions

Sanding machine SPIDER 230V

#080385

Dear Customer

You have chosen to purchase the wood floor sanding machine Spider. The perfect choice when it comes to quality and performance. This operation manual contains important instructions for operating the SPIDER machine



Attention!

Please read this operating manual carefully, and ensure that all users read this manual before operating the machine.

Observing the safety instructions protects against situations that may endanger health and safety and helps to prevent improper use of the machine.

Ensure that you are confident operating the machine before commencing work.

During operation is too late!
Do not allow persons to operate the machine if they do not possess the necessary expertise to do so.

Legend

Important instructions relating to safety and damage prevention are indicated in this operating manual by the following symbols.

Important instructions



Warning

Warning of general danger



Wear safety glasses



Wear hearing protection



Read the instructions



Special waste



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1.0 Product description

Important components of the machine

The numbering of the product features refers to the illustration of the machine on the graphics page 2-3.



- 1 Motor
- 2 Additional weight
- 3 Dust seal ring
- 4 Transport wheel
- 5 Clamping lever
- 6 Electronics
- 7 Dust Containment Connection
- 8 Cord Holder
- 9 Gear lever
- 10 Grip
- 11 Handle adjustment, on
- 12 On/Off Button
- 13 Operating light
- 14 Handle
- 15 Plug
- 16 Gas prop
- 17 RPM Control
- 18 Rubber Plate
- 19 Consumption Display

Functional description

Please refer to the graphics on pages 2 and 3 while you read the operating instructions.

Restriction of use

The Spider sanding machine is intended for sanding and grinding of wood floors or grinding and polishing of cementitious floors. When the machine is used in another way, it shall be regarded as unfit for that purpose. Uzin Utz North America shall not accept any liability for the damage resulting from nonintended use.

CE Declaration of Conformity

We declare under our sole responsibility that this product is in conformity with the following standards of standardization documents: DIN EN 1037, EN ISO 12100, DIN EN 60204-1, DIN EN 60745-1, DIN EN 55014-1, DIN EN 55014-2 according to the provisions of the: 2006/42/EC, 2004/108/EC, 2006/95/EC.

Dipl.-Ing. (FH) Dieter Hammel
Authorised to issue this declaration and for the gathering of the technical documentation.

01.04.2017 I.V. 
WOLFF GmbH & Co.KG | 74360 Ilsfeld | Ungerhalde 1

Technical data: Sanding machine

Power supply.....	230 V AC
Frequenzy	60 Hz
Power consumption	2.7 hp
Rotation speed	80 - 400 RPM
Width of grinding Ø.....	15-3/4"
Total weight	88 lbs
Additional weight	33 lbs

Technical data: Triple-disc-plate

Weight	42 lbs
Ø Hook-and-loop disc (3 pcs).....	7"
Rotation speed/ Hook-and-loop disc	60 - 500 RPM

Includes:

- 1 Sanding Machine Spider
- 1 Triple Disc Plate
- 1 Single Disc Plate
- 1 Dust Skirt
- 1 Additional Weight
- 1 Power Cord
- 3 Support Pads
- 1 Tool Kit
- 1 Manual



2.0 Safety Warnings

2.1 General Power Tool Safety Warnings

⚠ Warning Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) Keep work area clean and well lit.

Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool.

Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.

Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with grounded surfaces, such as pipes, radiators, ranges and refrigerators.

There is an increased risk of electric shock if your body is grounded.

c) Do not expose power tools to rain or wet conditions.

Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.

Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use.

The use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If the operation of a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.

The use of an RCD reduces the risk of electric shock.

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection.

Protective equipment such as dust mask, non-slip safety shoes and hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.

Carrying power tools with your finger on the switch or supplying power to tools that have the switch on, can be hazardous.

d) Remove any adjusting key or wrench before turning the power tool on.

A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times.

This enables better control of the power tool in unexpected situations.



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- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.**

Loose clothes, jewelry or long hair can be caught in moving parts.

- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.**

Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.**

The correct power tool will do the job better and safer at the rate for which it was designed.

- b) **Do not use the power tool if the switch does not turn it on and off.**

Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.**

Such preventive safety measures reduce the risk of starting the power tool accidentally.

- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**

Power tools are dangerous in the hands of untrained users.

- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other conditions that may affect the power tool's operation.**

If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

- f) **Keep cutting tools sharp and clean.**

Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.**

Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.**

This will ensure that the safety of the power tool is maintained.

2.2 Machine-specific Safety Warnings



Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

- **Do not use damaged insert tool. Before each use, inspect the insert tool for chips and cracks. If the power tool or wheel is dropped, inspect for damage or install an undamaged wheel.**

After inspecting and installing the insert tool, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.

Damaged insert tools will normally break apart during this test time.

- **Wear personal protective equipment. Depending on the application, use a face shield, safety goggles or safety glasses. As appropriate, wear a dust mask, hearing protection gloves.**

The eye protection must be capable of stopping flying debris generated by various operations.



The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

- ▶ **Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear personal protective equipment.**

Fragments of workpieces or of a broken accessory may fly away and cause injury beyond immediate area of operation.

- ▶ **Position the cord clear of the moving accessory.**

If you lose control of the power tool, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

2.3 Additional safety warnings



Wear safety goggles.

- ▶ **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.**

Contact with electrical lines can lead to fire and or electrical shock. Damaging a gas line can lead to an explosion. Penetrating a water line will cause property damage and or may cause an electrical shock.

- ▶ **When working screed, use dust extraction. The vacuum cleaner must be approved for the extraction of stone dust.**

Using this equipment reduces dust-related hazards.

- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.**

The power tool is guided more securely with both hands.

- ▶ **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the main plug when the cable is damaged while working.**

Damaged cables increase the risk of an electric shock.

2.4 Noise/vibration information



Wear hearing protection.

Measurements determined in accordance with EN 60745

The A-rated sound pressure level of the machine is normally

Sound pressure level	dB(A)	85,7
Sound power level.....	dB(A)	96,7
Margin of error	K=d	+/- 1.5 m/s ²



Warning Wear hearing protection!

Overall vibration values
(vector sum of three directions)
determined in accordance with EN 60745:

Vibration emission level	a _h =	2,7 m/s ²
Margin of error	K =	+/- 1.5 m/s ²

The vibration emission level indicated in this information sheet has been measured in accordance with a standardised test specified in EN 60745 and may be used to compare one tool with another.

It may be used for a preliminary assessment of exposure.

The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration include: maintaining the tool and the accessories, keeping hands warm, organization of work patterns.



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3.0 Assembly

3.1 Assembly of suction ring Fig. F

- ▶ Place dust seal on the floor
- ▶ Put the machine in the suction ring

3.2 Assembly of the Triple Disc Fig. C

For assembly, the machine is tilted over the wheels and placed on a rubber plate (18). This makes the drive accessible for the driving plate. Put the mounting disc on the actuation and lock it by turning counterclockwise. The pads are placed in the same way in the middle. By turning counterclockwise they are fixed.

3.3 Additional weight Fig. E

- ▶ Only the original weight may be used. Never use other weights or add additional weights as these can cause the machine to become overloaded!

Position the additional weight at an angle and snap into place. PALLMANN recommends that no more than two additional weights are used

4.0 Use

4.1 Switching on Fig. B

- ▶ Mount discs or brushes as described above.
- ▶ Put the handle in working position with the lever (11) at the back.
- ▶ We recommend to position the hand grip in the height of the users hip.
- ▶ Lift the handle slightly, to make sure the machine stands horizontally.
- ▶ Keep safety switch (12) pressed.
- ▶ Switch on the machine with one of the levers (9) located beneath the grip.
- ▶ Release switch (12).

After switching on the machine, the handle will move shortly to the right.

4.2 Operating the machine Fig. C

The direction in which the machine runs is determined by raising and lowering the hand guide. The more the handrail is raised or lowered, the faster the machine will run in the appropriate direction.

- ▶ **lifting the grip: machine runs to the right**
- ▶ **lowering the grip: machine runs to the left.**

If you feel unsafe or cannot control the machine just release lever (9). The machine will stop at once. If you have carried out some training, you will be able to operate the machine with one hand.

4.3 Speed control Fig. B

Adjust the speed of the discs with switch (13). Turning clock-wise increases the speed, turning counterclockwise decreases the speed. The optimal speed is dependent on the disc used and the subfloor. Always test the optimum speed in each case. Always start at low speed and then increase the speed.

4.4 Operation with dust containment

The dust containment will not remove all the abrasive material from the floor. It is recommended to clean the floor in between each grit of sanding with a vacuum cleaner and floor tool.

- ▶ Check condition of dust bag/dust containment in the vacuum cleaner and replace if full or split
- ▶ Dust from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or inhaling the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders. Certain dusts, such as oak or beech dust, are considered red carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked on by specialists.
 - Use dust containment whenever possible.
 - Provide good ventilation of the work area.
 - The use of a P2 filter class respirator is recommended. Observe the relevant regulations in your country for the materials to be worked.



4.5 The display (20) indicates the power consumption. (amps) Fig. D

3 LEDs illuminated green:

- ▶ **Machine operational, no faults.**

1 LED illuminated yellow or red:

- ▶ **Machine in overload range**
- ▶ **Machine shutdown imminent**
- ▶ **Overload protection triggered**

5.0 Ending the work

- ▶ **After completing the work, the drive plate or tool plate must be removed. When you leave the machine, always unplug the power plug from the socket. Never leave the drive plate or brush on the machine after finishing work!**

6.0 Transport

Remove Triple Disc and dust seal ring before transport. When carrying, use the handles provided at the front and rear of the machine.

7. Maintenance and Service

7.1 Maintenance and Cleaning

- ▶ **Before any work on the machine, please disconnect from main power source**
- ▶ **For safe and proper working, always keep the machine and ventilation slots clean.**
- ▶ **Clean the cooling fins of the engine and electronics regularly.**

Once work has been completed, the clamping devices must be disassembled and the machine cleaned. The machine must then be sent to an after-sales service agent. Addresses are listed in the Section "After-sales service and customer assistance". If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service center for PALLMANN

In all correspondence and spare parts orders, please always include the article number specified on the type plate of the machine.

7.2 Spider and Triple Disc maintenance plan

Regular maintenance and cleaning of the machine including its components helps to reduce repairs, damage and breakdowns. In addition, a well-maintained and clean machine gives a positive impression to the customer!

Daily maintenance/cleaning for wood floor sanding

Single Disc Plate

- ▶ Disconnect from main power source
- ▶ Remove single disc plate and weight and weights.
- ▶ Wash the wheels and suction ring with a damp cloth.
- ▶ Remove dust and dirt from the cooling fins of the motor and electronics using a hand wiper and a damp cloth.
- ▶ Clean the underside of the chassis completely with a hand wipe. The hole from the extraction must be free.
- ▶ Check plugs and cables for damage and fit.

Triple Disc Plate

- ▶ Remove the Triple Disc plate and clean with a damp cloth or thoroughly blow off with air.
- ▶ Blow off Triple Disc plate with air (wear protective goggles and dust mask), or clean with a damp cloth.
- ▶ Check the coupling for damage and heavy wear.
- ▶ Check chain tension and retighten if necessary.
- ▶ Check screws to see if screws have come loose.
- ▶ Treat chain and sprockets with Dry Lubrication and allow to dry briefly.



Weekly maintenance/cleaning for cementitious grinding work

Single Disc Plate sanding machine Spider

- ▶ Daily maintenance and cleaning as described above
- ▶ Check suction hose for blockage and clean
- ▶ Check brush wear and tear
- ▶ Check clearance of gas pressure shock absorber and guide rod, if necessary have repair carried out by an authorised service center.
- ▶ Wipe off coarse dirt on gears, chain tensioner, chain and base plate with a damp cloth.
- ▶ When used on cementitious substrates, spray thinly with Dry Lubrication.

⚠ Warning Attention!

Never use dry lubrication on wooden floors. Finish failure could happen.

⚠ Warning Attention!

Never leave the Triple Disc or Single Disc on machine! Always remove plates and place machine on wheels and rubber support pad.

⚠ Warning Attention!

When transporting the machine down stairways always remove weights from the machine to avoid damaging the gas shock absorbers.

7.3 Spare parts

Spare parts can be found on the internet at: <http://webcatalog.wolff-tools.com>

8.0 Trouble shooting

Functioning of the electronic speed control:

By turning the control, the target speed can be set from 80 to 400 rpm. When under extreme load with additional weights the machine reduces its speed automatically. The LED (13) flashes in varying intervals.



... Overload:

The machine has been extremely overloaded. The machine can be restarted after some seconds.



...Motor overheated:

The machine can be restarted when the LED stops flashing. This indicates that the motor has cooled and the machine is operational



...Electronics overheated:

The machine can be restarted when the LED stops flashing. This indicates that the electronics have cooled and the machine is operational. To remove load from the machine, detach the additional weight and/or reduce the speed.

Trouble	Eventual cause	Elimination
Machine does not run smoothly	Wrong speed not frequency	Speed frequency must select in corresponding with the floor, the tools and the abrasives.
Machine does not start	Power supply disconnected blown fuse defective cable or plug	Have machine repaired by a qualified electrician, resp. change parts
Machine does not start	Machine overloaded	Take off additional weight
Machine does not turn on	Machine overloaded	Tilt the machine over the transportation wheels. The plate is unloaded. Start the machine and lower it slowly on the floor



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9.0 Warranty

The warranty period for new Pallmann machines shall last for one year from the point at which the machine is transferred / delivered to the customer, insofar as statutory legal requirements do not stipulate otherwise.

When validating warranty claims, the invoice or proof of purchase must always be submitted. All repairs within the framework of the warranty agreement must be undertaken by a service center that has been accredited by us.

Customers performing their own repairs and/or improper repairs regularly lead to the exclusion of warranty claims. The same also applies to incorrect operation and/or use.

Replacement of parts, accessories and other modifications to Pallmann machines

Users of Pallmann machines enjoy a high level of safety and reliability of their machine. In order to maintain this status quo, your Pallmann tool may not be modified from the condition in which it is delivered without following the rules below.

These rules apply to both the replacement of parts and equipping the machine with accessories as well as other technical modifications.

- All work undertaken to your Pallmann machine must be **undertaken exclusively by a workshop that** has suitably trained and experienced personnel at its disposal, as well as the requisite work equipment. We recommend using authorized service center.
- In the event of planned replacement of parts, planned addition of accessories or other planned technical modifications, an assessment must always be carried **out by an authorized** service center or us, as manufacturer, before work is commenced.
- It is highly recommend that only safety-approved original replacement parts and original accessories are used, which have been approved by us, as manufacturer. Replacement parts and accessories can be obtained from your authorized service center, which will also be able to undertake professional installation on your behalf. Original replacement parts and original accessories have been checked for safety and suitability especially for Pallmann machines.

We are unable to adequately assess the safety and suitability of non-original replacement parts.

- In order to preserve operational safety and to prevent damage in the event of technical modifications, of whatsoever nature, our technical guidelines **must always be observed**. We are also always happy to hear from you should you have any other questions about your Pallmann machine.

Please note that we cannot accept any liability for damage, insofar as this is sustained as the result of incorrect work undertaken or as the result of violation of the rules stated above.